PUBLIC HEALTH REPORTS

VOL. 47

SEPTEMBER 2, 1932

NO. 36

CURRENT PREVALENCE OF COMMUNICABLE DISEASES IN THE UNITED STATES 1

July 17-August 13, 1932

The prevalence of certain important communicable diseases, as indicated by weekly telegraphic reports from State health departments to the United States Public Health Service, is summarized in this report. The underlying statistical data are published weekly in the Public Health Reports, under the section entitled "Prevalence of Disease."

Poliomyelitis.—During the current 4-week period the number of reported cases of poliomyelitis (395) was more than twice the number reported for the preceding 4-week period—about the usual seasonal increase. The States along the Atlantic coast and the North Central groups seemed to be mostly responsible for the increased incidence. In New York the cases rose from 23 to 39, in Pennsylvania from 8 to 112; in Illinois from 12 to 32, in Michigan from 3 to 15, in Iowa from 1 to 8, and in Minnesota from 8 to 17.

The total number of cases was slightly below the average for a period of years preceding the year 1930, was about 13 per cent of the number of cases reported for the same period in 1931, and was less than half the number reported in 1930—both epidemic years.

The most appreciable increases this year have been reported from the same regions in which the disease first appeared in epidemic-like form last year at this season. The far West and Mississippi Valley areas have reported no unusual rise. In 1930 those regions were the first to report a more than normal increase in the number of cases at this season of the year.

Meningococcus meningitis.—A slight increase over the preceding 4-week period in the incidence of meningococcus meningitis was reported for the country as a whole during the four weeks ended August 13. Out of 157 cases reported, New York reported 10, Pennsylvania 23, Indiana 23, Illinois 13, Kentucky 8, California 7, and Wisconsin and Missouri 5 each. The remaining cases were widely scattered over the

¹ From the Office of Statistical Investigations, U. S. Public Health Service. The numbers of States included for the various diseases are as follows: Typhoid fever, 47; pollomyelitis, 48; meningococcus meningitis, 48; smallpox, 48; measles, 45; diphtheria, 47; scarlet fever, 47; influenza, 39 States and New York City. The District of Columbia is counted as a State in these reports.

various geographic areas. As compared with previous years, the incidence maintained the same low level through the current period that has characterized it throughout the present year. Each geographic area, except the South Atlantic, reported the smallest number of cases

for this period in four years.

Typhoid fever.—For typhoid fever the number of cases increased from 2,814 for the preceding four weeks to 4,852 for the current period. In relation to previous years the current incidence was the highest in four years for this period. The numbers of cases reported for the corresponding four weeks in 1931, 1930, and 1929 were 3,620, 3,510, and 3,198, respectively. Each geographic area except the Mountain and Pacific contributed to the increase. More than twice the number of cases were reported from the East North Central group of States than occurred at this time last year. In other groups the increases ranged from 17 to 35 per cent. The Mountain and Pacific group reported a 16 per cent decrease. For only one 4-week period during 1932 have there been fewer cases reported for the country as a whole than were reported for a corresponding period last year.

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Scarlet fever.—The number of reported cases of scarlet fever for the 4-week period under report was 3,983, as against 3,362, 2,962, and 4,118 for the corresponding period in 1931, 1930, and 1929, respectively. With one exception, the South Central, all geographic regions reported an increase as compared with last year. In the New England and Middle Atlantic States, where the disease has been unusually prevalent, the number of cases for the current period was less than 50 per cent of the number for the preceding 4-week period, but it was still the highest for that group for this period in 4 years. In other areas the incidence was considerably above that of 1931 and 1930, but not as high as in 1929. The South Central States reported approximately the same number of cases as was reported for the same

period last year.

Measles.—The incidence of measles dropped more than 70 per cent during the current 4-week period as compared with the preceding four weeks. The decline was a little slower than during the same period in preceding years. The number of cases (7,626) was about 20 per cent in excess of last year's figure and was slightly above the incidence in 1930 and 1929 for the corresponding period. Of the six geographic areas reporting, only two, the South Central and Mountain and Pacific, reported fewer cases than were reported last year. In both of those regions the incidence was the lowest for this period in four years. In the other areas the increases ranged from 4 per cent in the West North Central to 88 per cent in the South Atlantic.

Influenza.—While reports indicate that influenza was slightly more prevalent during the current period than it was at this time in the three preceding years, the tendency was toward the usual summer

low level. For the four weeks ended August 13 the number of cases totaled 1,160, which was 1.4 times the number reported for this period in 1931 and 1929 and 2.2 times the number in 1930. No group of States reported an exceptionally large number of cases, but the South Atlantic reported 519 for the current period as against 278 last year and the Mountain and Pacific group reported 261 as against 83 last year.

Diphtheria.—Diphtheria was slightly more prevalent during the current period than it was during the same period last year, but it was considerably below the average for preceding years. A comparison of geographic areas shows that the incidence was the highest in four years in the South Central and far-western groups of States, while in the New England and Middle Atlantic and East North Central groups the incidence was the lowest in four years. For the country as a whole 2.170 cases were reported.

Smallpox.—The smallpox incidence (307 cases) for the current period was less than 50 per cent of last year's incidence for the same period and only 22 per cent of the incidence for this period in each of the years 1930 and 1929. No further cases were reported from Vermont or Connecticut, but New York reported 18 cases, as compared with 15 for the preceding period. Each geographic area reported fewer cases than during the same period last year, and in each one, except the New England and Middle Atlantic, the incidence was the lowest in four years.

Mortality, all causes.—The mortality rate from all causes in a group of large cities as reported by the Bureau of the Census averaged 9.7 per 1,000 inhabitants (annual basis) for the 4-week period ended August 13. For the same period last year the average rate was 10.3 and in 1930 the rate was 11. The average rate for this same period for the six preceding years was 10.7.

THE INCIDENCE AND TIME DISTRIBUTION OF COMMON COLDS IN SEVERAL GROUPS KEPT UNDER CONTINUOUS OBSERVATION 1

By W. H. FROST, Consultant, and MARY GOVER, Associate Statistician, United States Public Health Service

INTRODUCTION

In the autumn of 1923 the United States Public Health Service undertook a systematic inquiry into the prevalence, crude symptomatology, and certain broad epidemiological features of so-called common colds, or, more precisely, of the whole group of minor respiratory

¹ From the Office of Statistical Investigations, U. S. Public Health Service, in cooperation with the Department of Epidemiology of the Johns Hopkins University School of Hygiene and Public Health.

affections which includes common colds. Since there appeared to be no practicable method of obtaining the desired information except by direct reports from intelligent and interested observers, Surg. J. G. Townsend, who was in charge of the study, enlisted for this purpose two large groups of volunteers, namely, (1) students at a number of universities and colleges, together with a relatively small number of employees in certain offices of the Government in Washington; and (2) medical officers of the Army, Navy, and Public Health Service and members of university faculties.

The members of both groups reported by mail directly to the Public Health Service at regular semimonthly intervals, using simple forms provided for the purpose. The students reported only for themselves individually, while each medical officer and faculty member reported for his entire household. Further details concerning the scope and methods of the inquiry, including descriptions of the record forms used, are given in a previous publication (Townsend,

1924).

The student groups, organized in different localities at various dates, mostly in September, October, and November, 1923, continued to report until June 15, 1925, a period of something more than 18 months. During this time the number of reporters varied from a maximum of 7,050 in the early months of the investigation to 3,194 at the close. The family group, built up gradually during the first six months to about 3,700, numbered approximately 3,000 when the investigation was discontinued. The reports from this group, begun in September, 1923, simultaneously with the earliest reports from students, continued a year longer than the latter, that is, to June 15, 1926, thus affording a continuous record for more than two and one-half years:

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Two progress reports on the study of these two groups have been issued. The first of these (Townsend, 1924) describes the procedure followed in collecting the data and presents a brief summary of incidence rates, by semimonthly periods, in the students reporting from seven different localities; it also includes a provisional tabulation of symptom frequencies in each diagnostic class. The second report (Townsend and Sydenstricker, 1927) presents a statistical description of the cases reported in families with respect to the symptoms recorded under various diagnostic classifications, the incidence of cases in relation to sex and age, and seasonal distributions during the calendar year 1924.

The present report deals with gross incidence and seasonal distribution of the cases reported by the student and family groups throughout the full periods of observation.

GROSS INCIDENCE RATES IN STUDENT AND FAMILY GROUPS

Considering only those groups of sufficient size which reported continuously (as groups, not as individuals) throughout the designated periods, the recorded incidence of colds and other minor respiratory disorders in three successive 26-week periods was as shown in Table 1.

TABLE 1 .- Incidence of respiratory diseases 1 in successive 26-week periods in student and family groups

CART	TO APPEND 9	TO BE TO	1 000	DEDCOME	ODODDIED
CASE	ILAIES .	PER	1.400	PERSUNS	OBSERVED

	Mean	26	52-week		
City	number of persons in each group	Dec. 2, 1923, to Mar. 31, 1924	June 1, 1924, to Nov. 29, 1924	Nov. 30, 1924, to May 30, 1925	period, June 1, 1924, to May 30, 1925
Boston (Harvard University) South Hadley (Mount Holyoke College) Baltimore (Johns Hopkins University) Washington (Georgetown University) New Orleans (Tulane University) Chicago (University of Chicago) Columbus (Ohlo State University) Salt Lake City (University of Utah) Tucson (University of Arizona) Berkeley (University of California) Mean 4 for students Families 3	608 617 485 485 303 875 1, 206 227 106 1, 746	1, 905 2, 014 1, 735 1, 652 2, 081 1, 804	1, 429 1, 563 1, 363 1, 399 1, 174 1, 383 1, 321 1, 213 1, 752 1, 378 1, 661 1, 427 774	1,731 1,773 1,545 1,191 1,367 1,649 1,446 1,479 1,508 1,518 1,520 953	3, 160 3, 336 2, 944 2, 365 2, 740 2, 970 2, 659 3, 231 2, 886 3, 179 2, 947 1, 727

1 All respiratory affections exclusive of hay fever.
2 Rates are sums of actual rates for the weeks included in the respective 26 and 52 week periods.
3 Also includes a group of Government employees.
4 Arithmetic mean of rates, giving the same weight to each group, irrespective of its size.
5 Case rates for the second year for which the families were observed were in 26-week periods: May 31, 1925-Nov. 28, 1925, 607 per 1,000 persons; Nov. 29, 1925-May 29, 1926, 867 per 1,000 persons.

One of the most striking of the facts presented in this table is that, in each period, incidence was materially less among families than among the students. This difference is not satisfactorily accounted for by the special age distribution of the students, for Townsend and Sydenstricker (1927) have shown that, in these families, in 1924, the incidence at ages 15 to 34 was approximately the same as for all ages; nor does any difference in geographic distribution seem to be a sufficient explanation. A more probable assumption is that the higher incidence in students is due, at least in part, to the fact that their reports refer, in each instance, to the personal experience of the reporter, while the family records, except for the head of the household who made the report, refer to attacks suffered by persons other than the reporters, and, therefore, are perhaps less likely to include trivial attacks. However, the possibility is not excluded that conditions of student life, as aggregation for example, may be wholly or in part responsible for this high attack ratio.

Comparing the 10 student groups included in Table 1, the attack rates in each 26-week period are seen to be remarkably uniform, there being only two instances (Salt Lake City group, June 1 to November 29, 1924, and Washington group, November 30, 1924, to May 30, 1925) in which the attack rate in any group deviates by as much as 20 per cent from the mean rate for all groups in the same period. Considering the wide geographic dispersion of the localities represented, and their corresponding differences in climate, this uniformity of attack rate is one of the most interesting and significant facts brought out by these records, indicating that, in the prevalence of this group of disorders, climate is a factor of much less importance than would be supposed. Compared with this general fact of relatively uniform attack rates, the variations of incidence as between different localities are of much less clear significance, but are not altogether devoid of interest.

For the 52-week period June 1, 1924, to May 30, 1925, the highest attack rate is found in the South Hadley group and the lowest in the Washington group. Both of these groups are exceptional in their composition, that at South Hadley consisting entirely of female students, while the Washington group is made up chiefly of employees of Government offices, predominantly women, but of higher average age than university students. The higher incidence in the South Hadley group than in the students in other localities is consistent with the observation by Townsend and Sydenstricker (1927, their Table 11), that in the families reporting during 1924, the attack rate, in the age group 15-24 was slightly higher in females than in males. The lower attack rate in the Washington group is not accounted for by their higher age, according to the experience of Townsend and Sydenstricker. It may be, however, that it is related to conditions of life materially different from those of college students.

Among the remaining groups of students the highest attack rates for the year June, 1924-May, 1925, are at Salt Lake City, Berkeley, and Boston, and the lowest at Columbus and New Orleans, a geographic distribution which suggests no consistent relation of incidence to latitude or longitude. Moreover, the array of groups in order of attack rates is not closely similar in any two of the three 26-week periods which are recorded. Some suggestion of a consistent relationship to latitude is found in the fact that for both winter periods the attack rates in Boston and Chicago are higher than in the southernmost localities, New Orleans and Berkeley; but doubt is cast upon the significance of this fact when it is noted that similar differences in attack rates are observed between Chicago and Columbus, or between Baltimore and Washington, where the differences in latitude are small. On the whole, there is surprisingly little evidence of consistent differences between the several localities with respect to incidence rates.

Among the families for which the data cover two and a half years, the tendency is toward a declining rate for the same 6-month periods of re Oo we

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of successive years. This is quite generally true for the student material also, Berkeley being the only exception. Possibly, however, this tendency is brought about by a slackening of interest in reporting the incidence of "colds," rather than by really lower attack rates in successive years.

Data for comparison with respect to attack rates in the student groups may be found in such studies as that reported by Howe (1924), who undertook a census of "colds" occurring during the major part of a college term in a group of students at Wellesley College. He reports 849 "colds" in a class of 367 persons during the period from October, 1919, to April, 1920. Reckoning the period as about 30 weeks, this corresponds to an average weekly rate of 77 per 1,000. This is somewhat higher than the mean weekly incidence rates of 69 and 59, observed in our student group during the winter periods of 1923-24 and 1924-25, respectively; but the differences are not very great, and it is to be noted that Howe's observations extend through the rather severe influenza epidemic of 1920. There are, moreover, a considerable number of other observations which indicate that annual attack rates ranging from 2,000 to 3,000 per 1,000 persons are not unusual in college and school populations.

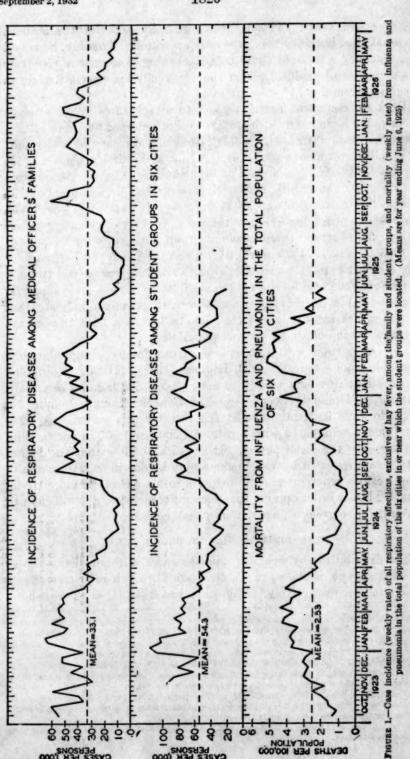
For comparison with the records of our family group, data are available from a report by van Loghem (1928). His data, obtained by questionnaires sent weekly to more than 1,500 families in various localities in Holland, cover a period of 37 weeks, from September 14, 1925, to June 5, 1926. The attack rate for this period was 4,280 per 1,000, as compared with a rate of 1,260 per 1,000 in our families for precisely the same period. It is quite possible that the higher attack rate reported by van Loghem may be due in some measure to more zealous reporting and to inclusion in his records of more trivial attacks; but it is our opinion that such differences are not sufficient to account for so great a disparity in attack rates.²

TIME DISTRIBUTION IN BROAD AREAS

The distribution by weeks of reported cases, without distinction as to clinical type, is shown in Tables 2 and 3, which refer to students and families, respectively.³ Figure 1, based on these tables, shows

³ These and later tables include all the student groups which reported throughout the 78 weeks, excepting the group in Baltimore.

² Recently an intensive study of the respiratory disorders occurring in a group of about 100 families residing in Baltimore has been conducted in the department of epidemiology of the Johns Hopkins University School of Hygiene under the direction of one of us (W. H. F.) under conditions peculiarly favorable for obtaining prompt record of all attacks, even those of trivial character. During the 32 weeks from Oct. 21, 1928, to June 2, 1929, the total attack rate in this group was 2,406 per 1,000. It is reasonably certain that there is little, if any, deficiency in these records; but notwithstanding that they refer to the season of high prevalence, and include the period of a quite severe influenza epidemic, the mean weekly rate (91 per 1,000) is less than that reported by van Loghem. From this and various other facts noted in the collection of our records, we believe that the true "normal" morbidity rate in a representative family group in this country is decidedly less than that observed by van Loghem in Holland.



incidence rates in the student group as a whole and the family group during the respective periods of observation. If the mean rate of incidence for the year ending June 6, 1925, be taken as an axis, it is seen that in each group, in each year, the incidence rate is consistently below this mean from about April 1 to September 1, and consistently above this level from about September 1 to April 1.

Table 2.—Incidence of respiratory diseases 1 among student groups, by weeks, October, 1923-June, 1925

WEEKLY CASE RATES PER 1,000 PERSONS OBSERVED

Week ended—	Boston	Chicago	Colum- bus	Washing- ton	Berkeley	New Or- leans	Average of 6 groups 3
1923		1917	- 3H T			100	= 1
Oct. 6				118.1		84.5	
Oct. 13				116.6		160. 5	
Oct. 20	131. 0			167.7		157. 1	
Oct. 27	86.3			98.8		91.7	
Nov. 3	147. 3			101. 4		121. 1	
Nov. 10	137. 7		178.7	73.9		131. 1	
Nov. 17	104.8	94.3	108.8	83.3		119.7	
Nov. 24	102. 1	119.5	95. 6	59. 6	109.3	67. 2	92.2
Dec. 1	112.9	120.9	99.2	56.2	68.3	55. 7	85. 5
Dec. 8	64. 1	81.0	58. 2	68.0	48. 1	41.5	60. 1
Dec. 15	117. 4	131.9	50.2	69. 8	41.3	74.8	80.9
Dec. 22	68. 8	81.6	69.7	59. 2	57. 2	62.8	66.5
Dec. 29	65. 8	65.3	47. 1	57.4	49.3	47.5	55. 4
1004		PL VIA	1.000	ETO/A	100		100
1924 Jan. 5	118.1	89. 5	117.0	88.0	116.4	110.7	10%
Jan. 12	116.1	92.5	147.7	116.4	81.3	143. 1	116.2
Jan. 19	64. 2	103.6	125. 1	90.0	96.2	132.1	101.9
Jan. 26	96. 7	107. 9	135.8	99. 6	67.8	118.4	104. 4
Feb. 2.	81.5	71.9	56.6	61.9	65.0	87.5	70.7
Feb. 9.	100. 1	89. 4	66.7	82.2	59.8	82.5	80, 1
Feb. 16.	86.8	89.4	67. 8	84.9	76. 4	57.9	77.2
Feb. 23	102.1	98.1	85, 2	91.3	61.9	68.8	84. 1
Mar. 1	80.4	78.7	72.3	80.6	67.1	54.3	72.2
Mar. 8	65. 1	99.8	78.0	78. 5	53.6	85. 9	76, 8
Mar. 15	63.0	74.8	88. 5	52.3	56. 2	91.4	71.0
Mar. 22	77.3	83. 1	79.4	74.5	62.3	74.6	75. 2
Mar. 29	65.7	62.3	62.7	68.5	44.5	52.2	59. 3
Apr. 8	51. 1	65. 7	51.7	47.4	48.5	42.2	51.1
Apr. 12	- 69, 6	80. 2	51. 1	66. 2	36,3	38, 4	37. 0
Apr. 19	59.3	89.2	37.9	31.5	49.1	22.0	48.2
Apr. 26	63. 7	67. 9	46.0	50.6	57.5	31.9	52.9
May 3	40.7	62.6	28.4	45.2	44. 6	24.0	40.9
May 10	45.0	67.8	45. 2	52.8	41.2	22.3	45. 7
May 17	48.4	54. 2	43.8	34.6	40.7	40.6	43.7
May 24	54.7	52.3	40.8	41.2	40.3	32.0	43.5
May 31	39, 2	39.9	51.0	41.1	28.7	1 12.8	35, 5
June 7	46.0	49.3	52.1	30.2	46.1	26.4	41.7
June 14	43. 5	38.8	44.1	35.9	40.3	24.0	37.8
June 21	1 24. 5	23. 5	18.4	28.1	42.6	36.7	29. (
June 28	30.0	19.6	21.5	23.9	22.0	28.8	24. 3
July 5	31.1	36.6	26.3	21.7	45. 4	62.5	87. 2
July 12	3 19. 8	22.4	21.4	26.1	57.2	35. 3	30.4
July 19	1 19.8	3 16.8	20.4	31.6	41.8	44.9	29. 2
July 26	1 25. 5	1 18.9	23.6	3 16.4	39.8	1 25. 3	24.1
Aug. 2	111.3	\$ 16.9	20.3	3 14.3	41.8	1 16. 9	20, 3
Aug. 9	3 16.9	23.0	25. 1	25, 1	44.4	39. 5	29. 6
Aug. 16	3 25. 4	31.4	41.1	37.4	58.7	3 11.3	24.1
Aug. 23	38. 7	40.0	35.4	25. 3	71.8	59. 5	45.1
Aug. 30	60.8	31.6	50.1	40.0	85. 4	32.7	50.1
Sept. 6	36.8	53. 2	31.2	44.0	89.3	74. 2	54.8
Sept. 13	64.4	119. 2	75. 5	73.9	97.8	62.3	82.2
Sept. 20	88.7	82.6	72.1	61.6	70.4	47.3	71.
Sept. 27	142.6	75. 2	40.2	74.9	58. 8	47.4	73. 2
Oct. 4	117.3	73.3	65. 4	93. 1	62.4	96.1	84. (
Oct. 11	61. 9	80.6	64. 5	76.9	69.0	84.1	72.8
Oct. 18	50. 5	71.4	49.8	46.6	66.6	81. 1	61.
Oct. 25	57. 5	87.2	60.0	52.0	72.9	105.0	72.4
Nov. 1	46.3	46.4	65.7	56.1	58.8	58.6	55, 3

All respiratory affections exclusive of hay fever.
 Arishmetic mean of rates, giving the same weight to each group, irrespective of its size.
 Rates are based on less than 10 cases.

Table 2.—Incidence of respiratory diseases among student groups, by weeks, October, 1923-June, 1925—Continued

WEEKLY CASE RATES PER 1,000 PERSONS OBSERVED-Continued

Week ended—	Boston	Chicago	Colum- bus	Washing- ton	Berkeley	New Or- leans	Average of 6 groups ²
1924				30 73		The second	1000
Nov. 8	58. 2	58,3	58.5	59.7	104. 1	53. 1	65. 3
Nov. 15	98. 5	52.6	64.4	72.5	90. 9	56.3	72.5
Nov. 22	110.6	76.3	96.1	42.8	95. 6	72.8	82.4
Nov. 29	102. 4	76.3	69.6	64.2	81. 5	101. 3	82.5
Dec. 6	49.3	75. 2	71.4	45. 1	52.7	90.6	64.1
Dec. 13	77.3	92.5	63. 3	47. 5	89. 2	48. 5	64.7
Dec. 20.	53. 2	48.8	51, 1	45.3	58.6	33. 2	48.4
Dec. 27	63. 1	78.1	48.0	58.8	76.3	73.1	66.2
1925		THE ST					
Jan. 3	88.0	68.4	55, 1	63.2	79.0	99.7	75. 6
Jan. 10.	108.3	98.0	67.1	86.1	81.8	89.7	88.5
Jan. 17	83. 3	72.5	78.2	68.4	68.4	53. 2	70.7
Jan. 24	72.3	55.1	106.7	55.9	70.3	61. 9	70.4
Jan. 31	75. 6	53.1	68.1	69.4	60.5	82.5	68. 2
Feb. 7.	78.6	80.6	- 84.6	68.3	67.3	140.4	86.6
Feb. 14.	90.6	54.4	56.8	54.7	76.4	102.7	72.6
Feb. 21	77.1	71.0	66.8	59.5	70.9	66.9	68.7
Feb. 28.	94.2	71.0	73. 2	34.8	49.2	224.6	57. 8
Mar. 7	The Late of the la	80.4	85.1	61.0	65, 5	* 32. 5	66.1
Mar. 14	1.59	109.3	67. 9	61.0	80.0	39.7	75.7
Mar. 21	72.7	48.6	44.4	37. 6	68.6	42.5	52.4
Mar. 28.	57.1	35.9	42.2	23.7	56.7	39.0	42.4
Apr. 4	57. 9	58. 2	20.2	26.1	55.5	114.3	38.7
Apr. 11	56.1	64.7	32.5	43.4	61.6	57. 1	52.6
Apr. 18	52.6	75.4	33.7	24.1	36.5	42.9	44.2
Apr. 25	40, 8	34.6	26.1	24.3	41.4	\$ 25. 3	32.1
May 2	37, 2	62.6	19.3	24. 2	29.6	* 21. 7	32.4
May 9	34. 2	46.8	34.7	27.8	33.6	118.4	32.6
May 16	12.2	49.0	49.7	37.9	34.4	\$ 14.7	39.7
May 23	44.7	37.3	54.6	2 16. 1	43.2	26.9	37.1
May 30	46.5	28.0	44.9	26.9	40.5	3 15. 4	33. 7
June 6	29.8	* 23. 1	21. 2	3 5. 4	30.3	* 14.0	20.6
Number of persons under ob- servation:							4
Maximum	1,019	802	1,800	620	2, 681	618	
Minimum 4	353	429	824	326	1, 111	260	********
Mean	668	575	1, 208	485	1,746	393	

Table 3.—Incidence of respiratory diseases among members of medical officers' families, by weeks, October 1928-June 1926

WEEKLY CASE RATES PER 1,000 PERSONS OBSERVED 1

Week ended—	Total respira- tory :	Coryza 2	Influ- enza 4	All	Week ended—	Total respira- tory ?	Coryza ³	Influ- enza •	All
1923 Oet. 6	54. 8 57. 9 60. 8 35. 8 39. 0	30. 6 33. 1 31. 1 16. 7 19. 5	4.8 1.4 1.2 1.2 8.4	19. 4 23. 4 28. 5 17. 9 16. 1	1923 Dec. 8 Dec. 15 Dec. 22 Dec, 29	45. 6 36. 6 52. 4 52. 4	33. 1 21. 4 28. 3 30. 0	2.7 5.8 4.2	11, 6 12, 5 18, 3 18, 2
Nov. 10 Nov. 17 Nov. 24 Dec. 1	60. 2 45. 3 29. 1 33. 5	35. 0 25. 9 14. 5 15. 2	4.4 4.3 1.0 4.1	20.8 15.1 13.6 14.2	Jan. 5 Jan. 12 Jan. 19	36. 4 50. 6 63. 2	12. 1 30. 3 25. 7	3.6 5.4 6.4	20.7 14.9 31.1

¹ The number of total respiratory cases was above 20, and the number of coryza cases above 10, throughout the period. The rates for influenza are based on less than 10 cases from approximately May to December of each year. After the first 3 months, when enrollment was practically completed, the number of persons under observation each week varied from a maximum of 3,919 to a minimum of 2,951, the mean number of

under observation each week varied from a maximum of 3,919 to a minimum of 2,951, the mean number of persons being, 3,194.

† All respiratory affections exclusive of hay fever.

"Coryza" refers to cases reported as coryza or head cold as the sole diagnosis, cases reported as coryza and bronchitis, coryza and sore throat or coryza and any other diagnosis except influenza are included in "all other."

"Influenza" includes all cases in which the diagnosis of influenza was reported regardless of other diagnoses reported for the same attack.

Rates are based on less than 10 cases.
 The minimum number of persons under observation is for the summer vacation weeks.

Table 3.—Incidence of respiratory diseases among members of medical officers' families, by weeks, October 1925—June 1926—Continued

WEEKLY CASE RATES PER 1,000 PERSONS OBSERVED-Continued

Week ended—	Total respira- tory	Coryza	Influ- enza	- All other	Week ended—	Total respira- tory	Coryza	Influ- enza	All
1924	8-113			(3,27)	1925		7	1	
lan. 26	65. 5	32.2	2.6	30.7	Apr. 4	26. 2	10.1		9. (
Feb. 2	52.0	29. 4	2.9	19.7	Apr. 11	31. 5	13.7	6.7	11.1
Feb. 9	47. 9	22.6	3.0	22.3	Apr. 18	31. 2	14.1	4.0	13. 1
Feb. 16	60. 5	29.7	5.0	25.8	Apr. 25 May 2	22. 5	10.7	2.3	9. 8
Feb. 23	50.2	29.9	3.5	16.8	May 2	21.5	10.4	2.0	0.1
Mar. 1	54. 8 55. 7	26.6 31.1	6.3	21. 9 10. 9	May 9 May 16	23. 1 24. 4	11.4	2.0	9. 7
Mar 15	51. 3	25.8	5.0	20.5	May 23	22.4	9.7	1.0	11.7
Mar 22	52.1	23. 1	6.5	22. 5	May 23 May 30	13.7	6.7	.3	6. 7
Mar. 8 Mar. 15 Mar. 22 Mar. 29	47.8	22.5	4.0	21.3	June 6	10.0	9.9	.3	
Apr. 5	47. 8 35. 2	19.0	3.2	13.0	June 13	14.3	6.3	.7	6. 4 7. 3 2. 6
Apr. 12	32.3	17.4	1.1	13.8	June 20	8.3	5.0	.7	2.6
Apr. 19	27.1	11.9	2.2	13.0	June 27	7.7	4.3	.3	
Apr. 28 May 3	36.7	15.6	5.5 2.7	15.6	July 4 July 11	7.7 6.3	4.0	.7	3.0
May 3	30.8	13. 1	2.7	15.0	July 11	6.3	2.3		
May 10	34.1	15.7	2.7	15.7	July 18 July 25	6.0	4.0 7.0		2.0
May 17	25. 7	15.1	5	10.1	July 25	11.3	7.0	1.0	4.3
May 24	26.9	16.2	.5	10. 2 9. 0	Aug. 1	14.6	8.3	2.0	5.3
May 31	19.7 18.8	10.2	1.1	9.9	Aug. 8 Aug. 15	13. 9 14. 2	6.6	1.0 2.6 2.3	5.3
une 7une 14		7.8	Li	8.8	Aug. 22	20. 5	9.9	3	10.3
une 21		7.7	1.6	5.9	Aug. 29		14.2	1.7	7. 2
une 23	9.9	5.9	.5	3.5	Sept 5	22.7	15.8	2.0	4.9
uly 5		7.6	.8	2.6	Sept. 12	20.7	12.8	2.0	5. 9
uly 12	12.0	7.7		2.6 4.3	Sept. 19	22.9	13. 1	2.0	7.8
uly 19	11.7	5.3	.3	6.1	Sept. 25	32.6	22.5	2.3	7.8
uly 26	13.6	6.4	.8	6.4	Oct. 3	39.7	23. 4	2.6	13. 7
lug. 2	8.8	5.0		3.8	Oct. 10	62.1	38.5	2.3	21. 3
lug. 9	11.1	5.8	.3	5.0	Oct. 17	49.0	31.0	4.2	13.8
lug. 16	16.9	10.6	.5	5.8	Oct. 24 Oct. 31	47. 9 31. 5	29. 6 17. 4	1.6	16. 1 12. 5
ug. 23 ug. 30	20. 7 22. 6	12.1 11.5	.8	10.3	Nov. 7	28. 5	15.7	2.0	10. 6
ept. 6	23. 2	12.5	1.0	9.7	Nov. 7 Nov. 14	30. 1	17.9	2.2	10.0
ent 13	34.5	19.6	2.0	14.9	Nov. 21	27.8	15.7	1.9	10. 2
ept. 13 ept. 20 ept. 27	58. 3	34.1	1.8	22.4	Nov. 28	33. 6	15.7	3.8	14. 1
ept. 27	20.4	30.4	2.6	17.4	Dec. 5	29.0	12.7	29	13.4
Ct. 4	43. 3	24.6	2.6 3.6	16.1	Dec. 12	35.7	17.5	2.2	16.0
et. 11	50.7	31.8	3.6	15.3	Dec. 19	41.6	21.9	4.1	15. 6
oct. 18	40.0	21. 2 24. 5	3.1	15.7 14.9	Dec. 26	50.1	23. 2	6.3	20. 6
et. 25	43. 5	24. 5	4.1	14.9	1000	100 37		17033	
lov. 1	39. 1	19.1	4.6	15.4	Jan. 2	46.6	21.8	6.7	18.4
ov. 8	45.7	22.6 22.6	7.7	15.4	Jan. 9.	43.5	21.5	8.5	13. 5
Nov. 22	51.3	25. 9	8.2	17.2	Jan. 16	41.7	17.6	7.5	16.6
lov. 29	58.7	28.7	7.9	22.1	Jan. 23	43.5	18.8	7.6	17.1
ec. 6	53.7	26.6	11.0	16.1	Jan. 30.	44.5	18.1	10.2	16. 2
ec. 13	48.6	25.8	7.9	14.9	Feb. 13.	35. 2	10. 2	16. 1	8.9
ec. 20	36.5	20.2	4.3	12.0	Feb. 13.	51.7	14.8	19.1	17.8
ec. 27	30.1	13.0	5.9	11.2	Feb. 27	53.0	17.4	18.1	17. 5
100	100	11 61	17 BULL	A STATE OF	Feb. 27	39.8	17. 1 13. 8	12.2	7.9
1925	34.7	16.6	6.6	11.5	Mar. 6 Mar. 13	42.1		15.5	12.1
an. 3an. 10	46.2	18.9	7.1	20.2	Mar. 20	40.8	11.2	17.4	12.2
an. 17	36.5	12.6	8.0	15.9	Mar. 27	30.3	14.5	7.6	8.2
an. 24	46.8	23.0	7.5	16.3	Apr. 3	21.7	9.5	6.6	5.6
m. 31	39.0	21.0	5.8	12.2	Apr. 3 Apr. 10	26.7	10.2	6.6	9.9
eb. 7	53. 0	17.9	14.5	20.6	Apr. 17 Apr. 24 May 1 May 8	20.7	10.5	23	7.9
eb. 14	44.6	17.2	11.8	15.6	Apr. 24	20.4	11.5	23	6.6
eb. 21	50.3	18.6	12.2	19.5	May 1	14.8	7.6	.7	6, 5
eb. 28	49.0	19.9	0.1	20.0	May 8	18.1	7.6		9.8
far. 7 far. 14	52.5	18.9	14.1	19. 5	MINY 10	19.2	7.9	. 6 1	5.6
lar. 14	45.1	17.8	12.4	14.9	May 22 May 29	14.2	6.6	.3	7.3
far. 21	39.7	15.8	11.4	12.5	IVINV 20	11.2	7.9	.7	3.5

During the season of low prevalence, April to August, inclusive, the incidence rates decline rather regularly to a minimum about the middle of July or the 1st of August, then increase as regularly. During the period of high prevalence, September to April, no such regularity of trend is seen. On the contrary, what is shown in the figure

is a series of peaks and depressions, quite irregular in their spacing and magnitude. Considering the numbers under observation and the fact that each "peak" represents an incidence rate which has been increasing consistently through several weeks, the major irregularities in the curves during the season of high prevalence clearly are not due to simple chance fluctuations.

Agreement is closer between data for the two groups during the same year than it is between different years in the same group. Thus, for the winter of 1923-24 both curves show a high incidence in January and a gradual decline during the remainder of the winter and spring, while in the following winter there are, in both curves, several high points followed by a decline in incidence, dropping as low as

the yearly mean during the latter half of December.

In each year the respiratory illness rates in September, October, or November are high—in fact they are almost or quite as high as in the later months of the winter. It is noted, in passing, that this does not conform to the seasonal distribution of mortality from influenza and pneumonia (which constitutes about 85 per cent of the total respiratory mortality), which is low during the autumn months and rises gradually to a peak in January and February, with a gradual decline in the spring.

CORRESPONDENCE OF TIME DISTRIBUTION IN DIFFERENT LOCALITIES

The incidence rates shown in Figure 1 are based on surveys of groups made up of individuals widely dispersed throughout the United States. Hence it might be that the irregular peaks represent epidemics occurring at different times in different localities, obscuring a more regular trend for each more narrowly limited area. That this is not the case is shown by Figure 2 (based on Table 2), which gives weekly incidence rates in student groups in each of six localities—Boston, Chicago, Columbus, Washington, Berkeley, and New Orleans.

The characteristics of each of the curves are essentially the same as already described for the average curve. The tendency is, in each locality, to a series of epidemics, with a certain degree of underlying regularity both for different years for the same locality and among separate groups for the same year. All the curves are at a minimum in July, then rise gradually through August, and at some time in late August or early September reach a level above the yearly mean. From this time onward, the prevalence continues almost invariably above the yearly mean until some time in March. Generally, the season of high prevalence in each one of the six localities is from the middle of September to the middle of March, though it begins a week or two earlier in New Orleans and Berkeley, and ends earlier in

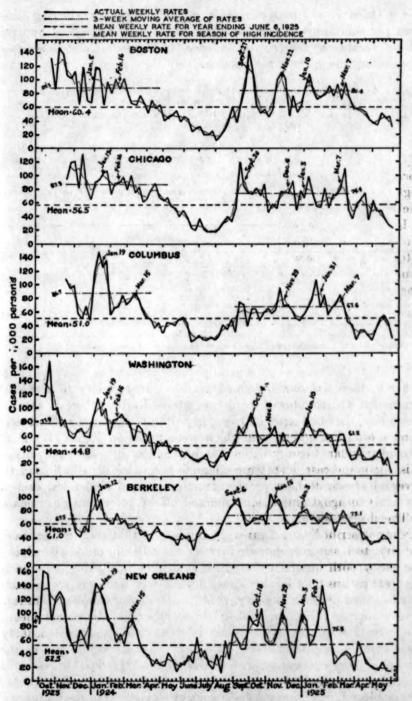


Figure 2.—Case incidence (weekly rates) of all respiratory affections, exclusive of hay fever, among college student groups reporting semimonthly to the United States Public Health Service, October, 1923, to May, 1925, in six cities. (Dates are ends of peak weeks)

New Orleans, about the middle of February. Considering that weather conditions in corresponding weeks vary widely as between these localities, the correspondence in seasonal distribution of respiratory disorders is remarkable.

Table 4.—Periods during which incidence rates for all respiratory diseases were respectively above and below the yearly mean, for student and family groups

ul city	Last week in spring of 1924 that weekly rate was above yearly mean	First week in autumn of 1924 that weekly rate was above yearly mean	Last week in spring of 1925 that weekly rate was above yearly mean	Number of weeks in summer of 1924 that weekly rate was generally below yearly mean	Number of weeks in winter of 1924-25 that weekly rate was generally above yearly mean
		- Wee	k ended—		42
Boston Chicago Columbus Washington Berkeley New Orleans Family Do.1	Apr. 26, 1924 May 10, 1924 Apr. 12, 1924 May 10, 1924 Mar. 22, 1924 Mar. 22, 1924 May 10, 1924	Sept. 13, 1924 Sept. 13, 1924 Sept. 13, 1924 Sept. 13, 1924 Aug. 23, 1924 Sept. 6, 1924 Sept. 13, 1924 Oct. 3, 1925	Mar. 21, 1925 Mar. 14, 1925 Mar. 14, 1925 Mar. 14, 1925 Mar. 21, 1925 Feb. 21, 1925 Mar. 21, 1925 Mar. 20, 1926	19 17 21 17 21 23 17 27	28 27 27 27 27 31 25 28 28

Reports from this group continued a year longer than those from the student groups.

Within the season of generally high prevalence, September to March, there is no well-defined tendency in any city to a smooth unimodal distribution of incidence rates. Rather, there is seen, in each city, the same series of irregularly alternating periods of increased and diminished prevalence which were noted in Figure 1. If an "epidemic" be broadly defined as a period of increased prevalence, then it may be said that the characteristic time distribution in the general season of high prevalence is a series of epidemics, each of several weeks duration, and marked off by intervening periods of lowered prevalence.

Inspection of Figure 2 gives the impression that there is a considerable degree of correspondence between the different cities with respect to the time of occurrence of these epidemics—that they tend to be general rather than local. Thus, in each city there are more or less well-defined peaks in January, 1924; September or October, 1924; and November or December, 1924. As to other "epidemic periods," a time correspondence between the different cities is suggested, but is less obvious from the figure.

For a more exact comparison, freed from subjective impression, it is necessary to adopt some objective definition of an epidemic, and some procedure whereby its peak may be located. For the purposes of this determination an epidemic period is defined as "the time during which the attack rate, measured by a 3-week moving average, remains

above the mean attack rate for the high-prevalence season." The peak is taken as the highest point in this moving average. The seasons of high prevalence are defined in each locality in Table 4. For 1923-24 the high season as used starts with the beginning of the record in October or November, 1923.

In each locality the 3-week moving average of incidence rates during the high prevalence season oscillates about the mean seasonal level, usually remaining above it for several weeks, then falling below for somewhat shorter periods, so that, by the definition given above, we have a succession of epidemics objectively determined. With some exceptions, these epidemics are failry symmetrical, so that the peak or mode in the moving average corresponds approximately to the midpoint in time.

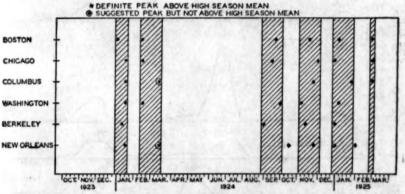


Figure 3.—Dates of occurrence of successive peaks in the incidence of respiratory affections in the six student groups, 1924-25. (See text and fig. 2 for method of determining dates)

The dates of occurrence of epidemic peaks as thus defined are shown in Figure 2, and are summarized in Table 5. A more compact graphic representation is given in Figure 3, which shows, for each city, the date (week) of each of the peaks recorded in Table 5.

Table 5.—Weeks 1 of occurrence of successive peaks in the incidence of respiratory diseases among student groups

Boston	Chicago	Columbus	Washington	Berkeley	New Orleans					
Week ended—										
Jan. '5, 1924 Feb. 16, 1924 Sept. 27, 1924 Nov. 22, 1924 Jan. 10, 1925 Mar. 7, 1925	Jan. 19, 1924 Feb. 16, 1924 Sept. 20, 1924 Dec. 6, 1924 Jan. 3, 1925 Mar. 7, 1925	Jan. 19, 1924 Mar. 15, 1924 ² Nov. 29, 1924 Jan. 31, 1925 Mar. 7, 1925	Jan. 19, 1924 Feb. 16, 1924 Oct. 4, 1924 Nov. 8, 1924 Jan. 10, 1925	Jan. 12, 1924 Sept. 6, 1924 Nov. 15, 1924 Jan. 3, 1925	Jan. 19, 1924 Mar. 15, 1924 Oct. 18, 1924 Nov. 29, 1924 Jan. 3, 1925 Feb. 7, 1925					

¹ See text for method of determining dates of peaks.

² This peak does not meet all the requirements as defined in the text, but at this date a peak is definitely suggested.

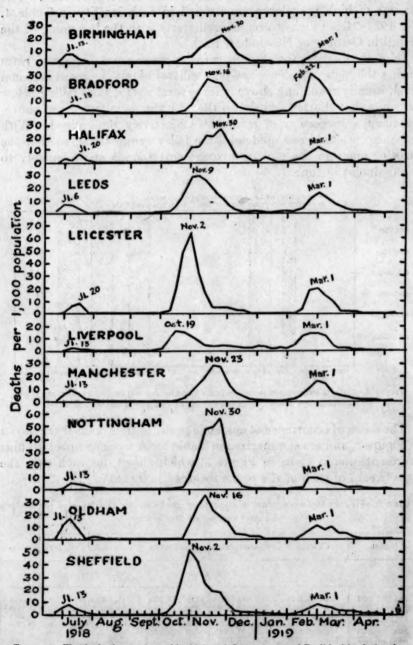


FIGURE 4.—Weekly death rates (annual basis) from influenza in several English cities during the three successive waves of the 1918-19 epidemic. (Dates are ends of peak weeks)

It is clear, from this figure, that the epidemics in the different cities occurred almost exclusively in six periods or time zones, which are indicated in the figure by shaded areas. There are 4 periods, of 3 to 5 weeks' duration, in each of which distinct "epidemic peaks" occurred in 4 or more of the 6 cities. There is a fifth period of 5 weeks (February 10 to March 16, 1924) when distinct "epidemics" occurred in 3 cities, while 2 of the remaining 3 showed fairly definite peaks which failed, however, to rise above the high-season mean, and consequently do not fall within the definition of "epidemic" which has been adopted. In the sixth period of a single week (week ended March 7, 1925) distinct epidemics occurred in Chicago and Columbus, with a minor peak in Boston. Only two distinct peaks, both in New Orleans, occur outside of the six time zones indicated on Figure 3.

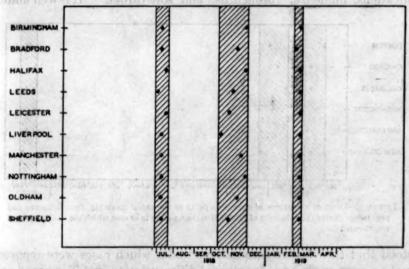


FIGURE 5.—Dates of occurrence of successive peaks in the mortality from influenza in several English cities during the three waves of the 1918-19 epidemic

The six cities under observation are widely separated, they differ greatly in climate, and, in each city, the epidemics are somewhat irregularly spaced. It is truly remarkable that in the presence of all these variables there should be such close correspondence between the cities with respect to the time of occurrence of the epidemics.

The analogy which suggests itself is with epidemic influenza, which characteristically occurs over a wide area at nearly the same time. For comparison with the record of common colds, Figures 4 and 5 are exhibited, showing the time correspondence between various English cities in the occurrence of successive peaks of epidemic influenza between June, 1918, and March, 1919, as indicated by weekly records of mortality. (Report of the Registrar General for England and Wales, 1918.)

As a further illustration of the similarity of the time relations observed in common colds to those observed in epidemic influenza, Figure 6 is introduced, showing, for the six cities which are included in this study, the dates of successive peaks in excess mortality from influenza and pneumonia from October, 1918, to March, 1920.

PREVALENCE AND TIME DISTRIBUTION OF DIFFERENT CLINICAL GROUPS OF RESPIRATORY DISEASE

The discussion, to this point, has referred to attack rates from all forms of respiratory disorders, without regard to any clinical subdivision. The cases included were reported, however, under several different diagnoses, chiefly "cold in head" with or without complications, "influenza," "bronchitis," and "sore throat." It is well under-

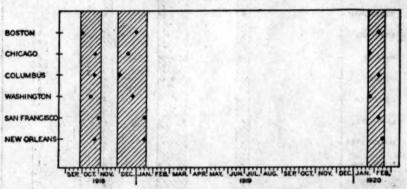


FIGURE 6.—Dates of occurrence of successive peaks in the excess mortality from influenza and pneumonia during the epidemics of 1918–1920 in the six cities in or near which the student groups were located

stood that the various designations under which cases were reported make a very crude basis for clinical differentiation, yet Townsend and Sydenstricker (1927) have shown that cases classified in this way actually show certain consistent differences as regards symptomatology, age selection, and seasonal distribution. It has seemed worth while, therefore, to ascertain, from this larger material, the characteristic seasonal distribution of the more prominent clinical groups of cases.

Table 6 shows, for each of the six student groups, the incidence, week by week, of cases reported as influenza. Table 3 gives corresponding weekly incidence rates of influenza in the family group, with a subdivision of the remaining cases into "coryza" and "all other."

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Table 6 .- Incidence of influenza 1 among student groups, by weeks, October, 1923-June, 1925

WEEKLY CASE RATES PER 1,000 PERSONS OBSERVED

Week ended-	Boston	Chicago	Colum- bus	Washing- ton	Berkeley	New Or- leans	Average of 6 cities 1
1923						11411	The same
Oct. 6.				7.1			
Oct. 13 Oct. 20	1.5					1.7 3.2 3.3	
Oct. 27	1.0			4.1		3.3	**********
Nov. 3	1.5						~~~~~~~
Nov. 10	1.0		1.6 1.5	4.0		3.2	
Nov. 17	2.0	2.2	1.5			6.5	
Nov. 24	20	3.0	1.4	2.0	1.1		1.0
Dec. 1	20	9.9	V	2.0 5.8 1.9	1.1 2.3 2.2		1. 2. 2.
Dec. 8	6.9	4.8	24	Ly		3 3	
Dec. 22	1.0	4.5 5.9		3.0	2.3	3.3 1.7	21
Dec. 29	1.0		.7 .8 24 .9 1.8	20	1.1	*********	1.0
1924		17 7 7		3.000	P. Dr.	1	To my
an. 5	1.0	1.5	3.1		4.5	1.7	20
Jan. 12	1.0 1.0 1.0	1.5 4.5 5.8 2.9 5.8 8.4 9.8 7.7 5.2 8.7	3.1 3.8 2.2 5.7 1.7 2.2 1.7 3.5	3.9	1.6	1.7 8.1 3.4 6.9 3.5 1.8 2.6 3.7 1.8 7.7	2.0 3.1 3.1 3.1 4.3 4.3
an. 19	1.0	5.8	2.2	5.9 6.2 3.9 5.9	1.6	3.4	3.1
an. 26	20	29	5.7	6.2	.8 3.2 2.5 1.7 1.6 3.6 3.8	3.4	8.
Feb. 2		5.8	1.7	3.9	3.2	6.9	3.
Feb. 9	3.1 1.0	8.4	2.2	7.0	2.5	3.5	
Feb. 16Feb. 23	4.1	7.7	2.5	4.0	11.4	1.0	3.5
Mar. 1	2.1	52	.6	-	3.6	3.6	2.1
Mar. 8	21 4.2 21	8.7	7	2.0	3.8	3.6	2.0
Mar 15	2.1	1.2	3.7 3.1 1.3	20		3.7	1 1 1 2 1
Mar. 22 Mar. 29	3.2 1.1	3.9 5.2 1.3	3.1	21	1.8 3.6 2.6	1.8	3.6
Mar. 29	1.1	5.2	1.3	CONTRACTOR OF THE PERSON OF TH	1.8	2.7	9.1
Apr. 5	1.1 5.4 3.3	1.3	2.6	1.7	3.6	7.7	3.0
pr. 12	5.4			5.2	2.6		2.1
pr. 19	3.3	2.6		3.3	2.5	********	1.8
Apr. 26		2.6 2.6 1.3	1.3	1.7 5.2 3.3 1.7 1.6	100 6 . 6	*********	istnes i
May 3		THE ME	********	THE PARTY	DESTRUCTION OF THE PERSON		SETTION OF
May 10		2.7	7	1.0	1.8	2.0	1.4
May 24		25,2038,685,591	7	5.1	1.8 1.0	20 21	1.8
May 31		1.4 3.5 3.5		1.6 5.1 1.7	1.9		1.0
une 7		3.5	.7		1.9		1.0
une 14	2.7	3.5	. L4	********	1.4		drings 9
une 21	2.7						.7
une 28	2.8			2.0 2.0 2.0	3.0	2.6	1.0
uly 5uly 12	2.8	********	.8	20	2.0		1.0
uly 12uly 19				200	1.5	2.8	7
uly 26	2.8		8	**********	1.5	2.0	V 3- 19/10
ug. 2	7.5		.8		1.5		
ug. 9.					1.1	2.8	.7
ug. 16			.8		1.7 1.7 2.7		.4
ug. 23					2.7		5
ug. 30	28 23 23		1.7		.0		
ept. 6ept. 13	23		1.7	21	4.0	3.0 3.0 3.0	1.8
ept. 13	23	2 1 1.9 7.3 1.9 7.3 3.7 3.7 1.8 2.7	4.5	21	1.8	3.0	1.8
ept. 20ept. 27	6.2	7.3			3.5	0.0	1.9 2.8 1.6 2.3 2.1 3.2 2.1 6.3
Oct. 4.	3.3	1.9	1.8	2.0	6		1.6
Oct. 11	E-10. 17729	7.3			3.6	3.0	2.3
Oct. 18	1.6 1.6 3.2 9.7 11.3	3.7	.9 1.9 2.9		3.6	3. 0 3. 0 9. 3 3. 1 6. 2	21
Oct. 25	1.6	3.7	.9	2.1	3.6 1.8 2.5 4.6 2.0 5.1 1.3 3.3	9.3	3. 2
lov. 1	3.2	1.8	1.9	********	2.5	3.1	21
Nov. 8	9.7	3.7	29	10.7	4.6	6.2	6.3
Nov. 15	11.3	*************	2.0 6.9 2.0	6.4	2.0	3.1	4.1
Nov. 22		1.6	6.9	21	1.2	3.2	4.1 6.6 4.5
Nov. 29	13.0	1.0	4.0	6.4 2.1 8.5 6.4	2.3		4.0
Dec. 13	13.0 8.2 9.9 6.7	7.6 1.9 1.9 1.9 5.9 5.9	2.0	0.4	0.0		2.3
Dec. 20	6.7	4.0	2.0	2.2	1.4	3.3	3.4
Dec. 20		5.9	2 0 2 0 2 0	22	1.4	3.3	23 3.6 2.0
1925	Carrie	311	11 133		1999	100	TE LEVE
an. 3	23		1.0	22	27	6.7	27
an. 10	0.4	3.9		0.0	40		4.5

All cases in which the diagnosis of influenza was reported regardless of other diagnoses reported for the same attack.
 Practically all rates for individual cities are based on less than 10 persons. See Table 2 for number of persons under observation.
 Arithmetic mean of rates, giving the same weight to each group, irrespective of ta size.

Table 6.—Incidence of influenza among student groups, by weeks, October, 1925— June, 1925—Continued

WEEKLY CASE RATES PER 1,000 PERSONS OBSERVED-Continued

Week ended—	Boston	Chicago	Colum- bus	Washing- ton	Berkeley	New Or- leans	A verage of 6 cities
1925		1	V E I S			0.000	
Jan. 17	6.7	7.8	4.0	2.2	4.0		4
an. 24	11.8	2.0	7.1	2.2	8.5	10.3	7.
an. 31	15.1		2.0	2.2	8.5	30.9	9.
eb. 7	3.4	16.1	6.1	4.6	0.8	58.2	16.
eb. 14	12.0		3.1	2.3	9.1	41.1	11.
eb. 21	18.0	16.2	8.5	6.9	18.1	35.2	17.
eb. 28	10.3	14.2	11.7		7.2	10.5	9
far. 7	3.4	12.4	23.7	2.3	11.5	10.8	10.
	8.6	10.3	21.6	23	10.1	14.4	11.
	3.5	8.4	12.2		4.0	3.5	
far. 21	3.5	0.9	7.8	********	4.0	0.0	1
	7.0			7.1	6.1	********	ā
pr. 4		8.6	8.4	1.1	2.3		
pr. 11	14.0	8.6		4.0			
pr. 18	3.5	6.5		4.8	1. 5		1 2 2
pr. 25	1.8		1.1		3.1	7.2	ī
May 2		2.2			1.5	3.6	-
[ay 9		4.5	23		5.7		2
(ay 16		2.2	1.1	2.5		3.7	1.
fay 23	1.9		1.2		.9		La la cons
fay 30	1.9	2.3	1.2		.0	3.9	1.
une 6	2.3		1.5	27	1.8		. 1

It is evident, from inspection of the original records, that the clinical groups distinguished in Tables 3 and 6 overlap quite broadly, and that the assignment of two or more cases to different groups may often be determined by the reporter's choice of different words to describe similar phenomena rather than by any clearly defined clinical differences. For instance, a case exhibiting the symptoms of rhinitis, cough, sore throat, fever, and aching might be recorded by one reporter as a "cold," without other designation (but with a record of symptoms), and by another as "cold, bronchitis, and sore throat," and by a third as "influenza," so that it might fall into any one of the three classes. Nevertheless, according to Townsend and Sydenstricker's analysis, these classes, taken as groups, differ from each other materially. The cases designated coryza consist chiefly of those in which the most prominent symptom is acute rhinitis, with relatively rare occurrence of cough, sore throat, fever, and other toxic symptoms. The influenza group comprises chiefly cases marked by toxic symptoms-fever, prostration and aching-along with coryza, cough, and sore throat. The group of "all other" cases is more heterogeneous, and differs less sharply from coryza on one side and influenza on the other. Consequently, for epidemiological study, interest centers chiefly on influenza, as representing the most severe cases, and on comparisons of this class with the most strongly contrasting group, coryza.

Table 7 shows the reported incidence of so-called influenza in successive 26-week periods in the student group in each of six cities, in the student group as a whole, and in the family group. The lower

section of the table shows, for each period and each group, the percentage which the influenza cases are of all the reported respiratory diseases.

TABLE 7 .- Actual and proportionate incidence of influenza 1 in student and family groups in successive 26-week periods

CASE RATES! PER 1,000 PERSONS OBSERVED

whom had be due and non-	Students								
26-week period	Boston	Chicago	Colum- bus	Wash- ington	Berke- ley	New Orleans	Average 1 6 groups	Fami- lies	
Dec. 2, 1923-May 31, 1924 June 1, 1924-Nov. 29, 1924 Nov. 30, 1924-May 30, 1925 May 31, 1925-Nov. 28, 1925 Nov. 29, 1925-May 29, 1926	44. 6 79. 2 163. 7	92.9 49.9 141.8	44. 5 34. 3 136. 6	65. 6 42. 0 50. 0	51. 6 52. 2 132. 3	64.3 48.1 246.6	60.7 51.0 146.9	91. 63. 63. 63. 642 42 196. 7	
PER CENT OF ALL RESPIRATO	RY CA	SES TE	AT WE	RE DE	SIGNA	TED AS	INFL	JENZA	
Dec. 2, 1923-May 31, 1924	2.3 5.5 9.5	4.5 3.8 8.6	2.5 2.8 9.4	3.8 3.6 4.9	3.5 3.1 8.7	3.9 3.5 18.2	3.3 3.6 9.7	8.0 8.1 19.1 7.0 22.7	

¹ All cases in which the diagnosis of influenza was reported regardless of other diagnoses reported for the me attack.

² Rates are sums of actual rates for the weeks included in the respective 26-week periods.

³ Arithmetic mean of rates, giving the same weight to each group, irrespective of its size.

It is noted in this table that, in each period, the incidence of influenza is higher in the family group than in the student group as a whole, whereas the reported incidence of all respiratory diseases (see Table 1) is materially higher in the student than in the family group. It follows that influenza furnishes a larger proportion of all reported cases in families than in students, and this is seen to be the case in every period covered by records for both groups.

The higher absolute and relative incidence of so-called influenza in the family group than in students might be taken to represent merely a greater inclination toward this diagnosis on the part of those who reported for the families-mostly physicians. However, Townsend and Sydenstricker (1927) found that in families reporting during 1924 the absolute and proportionate incidence of influenza was materially lower in the age group 15-24 than at all ages. The pertinent data, from their Table 11, are as follows:

and Schill or relation	Incidence	per 1,000	Per cent
Age group	All respira- tory dis- eases	Influenza	which in- fluenza cases are of total
All ages	2,009 1,377	183.3 81.8	9.1 5.9

The fact that in the present study the incidence of influenza is absolutely and relatively lower in students than in the family group appears, then, to be at least in part an expression of the special age selection of influenza, and to be not inconsistent with a higher total incidence of respiratory diseases in the students.

It was noted, in the discussion of Table 1, that, in any given period, the total incidence of respiratory diseases varied remarkably little as between the six student groups. This can not be said of influenza. In each period the highest of the six attack rates is more than double the lowest rate. Also, comparing the two corresponding seasonal periods, December-May, 1923-24, and December-May, 1924-25,

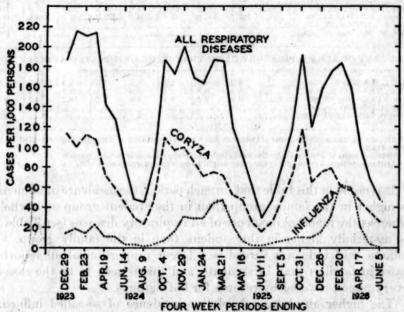


FIGURE 7.—Case incidence, in 4-week periods, of all respiratory affections, of coryga, and of influenza, among the families of medical officers, 1923-1926

the incidence of influenza is much greater in the second than in the first period. Hence influenza is distinctly more variable in its occurrence than is the broad group comprising all respiratory diseases.

It was also shown in Table 1 that in the successive winter and spring seasons (December-May) covered by the records the reported incidence of respiratory disorders progressively declined, both in the students and in the families. In contrast to this, the recorded incidence of influenza was twice as high in the period December-May 1924-25, as in the corresponding period of 1923-24. In the family group, for which the record extends through another year, the incidence of inflenza was still further increased in the winter and spring of 1925-26. Thus, from the winter of 1923-24 to that of 1925-26,

while the total incidence of respiratory diseases tended to become progressively less, the severity of the disorders tended to increase, as indicated by an increasing proportion of the more severe type of cases, reported as influenza.

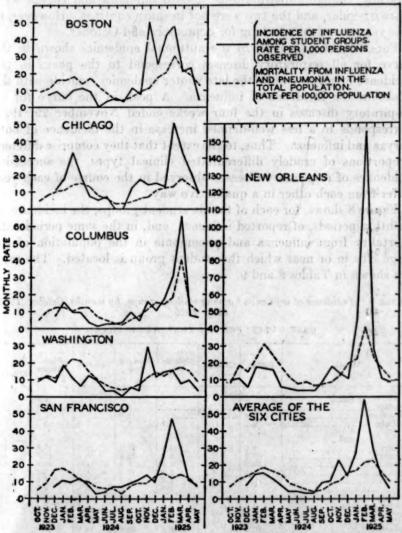


FIGURE 8.—Monthly case incidence of "influenza" among the six student groups and monthly mortality from influenza and pneumonia in the total population of the cities in or near which the student groups were located, 1923–1925. (Rates for all months reduced to 30-day base)

Figure 7 shows, by 4-week intervals, from December 1, 1923, to May 15, 1926, the incidence, in families, of "all respiratory diseases," "coryza," and "influenza," respectively. From this graph it is apparent that in each year for which there is a full record (1924-25 and 1925-26) coryza reached the height of its prevalence in September.

or October, and declined with fair regularity through the winter, while influenza followed a quite different course, increasing steadily through the autumn and early winter to a peak in February or March. In the winter of 1923–24, when the reported prevalence of influenza was low, the time distributions of both influenza and coryza were more irregular, and the two were not in sharp contrast. However, in this year records are lacking for September and October.

For 1924-25 and 1925-26 the autumnal epidemics shown in the curve for all respiratory diseases correspond to the peaks in the incidence of coryza, while the late winter epidemics coincide with the peaks in the incidence of influenza. A peak in the curve for all respiratory diseases in the four weeks ended November 29, 1924, corresponds to a less well-defined increase in the incidence of both coryza and influenza. Thus, to the extent that they comprise different proportions of crudely differentiated clinical types, the successive epidemics of respiratory diseases observed in the course of each year differ from each other in a qualitative way.

Figure 8 shows, for each of the six student groups, the incidence, in monthly periods, of reported influenza, and, in the same periods, the mortality from influenza and pneumonia in the population of the large city in or near which the student group is located. The rates are shown in Tables 8 and 9.

Table 8.—Incidence of influenza 1 among student groups, by months, October, 1925-May, 1925

		100			
CART	TARMER.		DISCOURAGE AND	ABARDITER	

Month	Boston	Chicago	Colum- bus	Washing- ton	Berkeley	New Orleans	A verage of 6 groups 3
		1201		25.00	4-1-1		1291
October 1923	Was a state	201 4.40	0.000		4-1-2		-0
November.	***********		~~~~~	9.9		9.4	
December	7.4	11 0	6.7	11.0		5.3	
December	9.2	11.3	6.7	8.3	7.0	5. 3	8.0
1924		DOMEST BY	March 1	A STATE OF THE PARTY OF	10000		1002
· · · · · · · · · · · · · · · · · · ·	4.5	17.8	14.6	18.2	10.5	17.4	13.8
February	10.3	33.1	8.7	11.4	10. 5	16.2	15.1
March	10. 8	19.5	9.3	6.4	11.6	15.0	12.1
1 12	9.5	6.9	3.2	12.3	8.5	8.5	7.6
	9.0	4.5	1.4	8.8	3.4	4.0	3.8
	3.5	7.0	2.3	2.6	3.9		3.7
		7.0				2.6	
	4.6		1.8	3.3	6.7		3.2
August	3.0	***********	2.9	.3	6.8	3.1	
September	10.9	12.1	8.5	4.8	9.5	8.6	9.1
October	7. 5	16.7	4.4	3.1	11.1	17.4	10.0
November	50. 2	13.7	14.6	28.6	13.8	12.9	22.4
December	24.7	14.8	9.7	10.7	9.6	10.1	13. 4
1925	10.00	3000	er W.S.Mine	3417933	Secretary .	100000	
January	41.0	13.3	16.0	13.6	25.4	42.7	25.7
February	47.8	49.8	30.4	14.8	47.4	155.4	57. 6
March	21.3	33.7	64.6	7.4	31.2	27.8	31.0
	23.3	21.6	7.5	8.9	11.5	9.8	13.7
		9.3	5.8	2.8			6.4
May	4.0	9.3	0.0	2.0	7.9	8.3	0.1

All cases in which the diagnosis of influenza was reported regardless of other diagnoses reported for the same attack.

Rates reduced to 30-day base for all months.
 Arithmetic mean of rates, giving the same weight to each group, irrespective of size.

Table 9.-Mortality 1 from influenza and pneumonia in the total population of 6 cities, by months, October, 1923-May, 1925

DEATH RATES : PER 100,000 POPULATION

Month	Boston	Chicago	Colum- bus	Washing- ton	San Fran- cisco	New Or- leans	Average of 6 cities 3
1923 October:	8.5 10.7	5.1 8.1	5.2 9.6	8.7 11.9	4.8	7.9 18.1	6.7
December	15.9	9.6	12. 2	11.3	16.5	14.4	13. 3
1924			38.0				
January	16.0	11.5	11.0	16. 5 21. 7	17.7	22.0	15. 9
February	14.4	14.9	12.3	20.7	10.6	24. 2	16. 2
April	17. 2	12.6	12.3	15.5	10.3	17.2	14. 2
May	11.8	8.2	6.5	10.4	6.7	11.1	9.1
June	8.3	6.2	4.8	7.4	5.8	7.2	6.7
July	3.9	8.0	2.0	4.7	8.7	8.1	4.7
August	4.3	3.2	1.8	3.8	3.5	5.9	3.8
September	5.6	4.1	4.5	5.4	7.0	6.6	4.5
October	9.3	5.6	6.0	7.4	9.0	7.6	7.0
November	11.4	6.8	10.8	10.7	8.8	11.8	10.0
December	16.7	11.5	15. 8	13.6	13.1	18.7	14.9
1925	201 19	Insen.	6 TO X4	Sun LB	m 334	MATE	Mandal &
January	19.9	12.2	14.2	11.7	15.3	22.2	15.9
February	30.1	13.4	17.6	15.0	12.3	39.8	21. 4
March	21.7	18.4	39.8	17.3	13.6	22.7	22.3
April	18.6	14.4	13.6	15.1	11.7	16.2	14.9
May	13.3	10.0	10.0	9.0	7.3	10.5	10.0

Data from Mortality Statistics, U. S. Bureau of the Census.
 Rates reduced to 30-day base for all months.
 Arithmetic mean of rates giving the same weight to each city, irrespective of size.

During the winter and spring of 1923-24, the incidence of influenza was comparatively low in every one of the groups, the highest attack rate being 33.1 per 1,000 in Chicago in February (rate expressed on 30-day basis.) In the other five cities the maximum attack rates in any month are all less than 20 per 1,000, and in different cities the peaks of incidence fall at different times, namely, in Washington, New Orleans, and Columbus, in January; in Chicago, in February; in Boston and Berkeley, in March.

In the second winter of the record, the prevalence of influenza was materially higher in all six groups 4. As was found in the records for the families, so in the student groups, there were two distinct periods of increased or epidemic prevalence of influenza. The incidence curve for the Boston group shows both these epidemics as two distinct and approximately equal peaks, one occurring in November, 1924, and the other in February, 1925. Peaks corresponding to the November epidemic in Boston are shown distinctly in October and November, respectively, in the curves for the New Orleans and Washington groups with suggested but not clearly defined epidemics during one or both of these months in Chicago, Columbus, and Berkeley.

In the Washington group the attack rate for the 6 months December-May, 1924-25 was less than in the corresponding period of 1923-24, but a high incidence of influenza occurred in November, 1924, making the incidence for the entire season, November-May, higher than in 1923-24.

The epidemic shown in Boston in February is clearly indicated, in either February or March, in all the other cities except Washington, where it is, at most, quite trivial.

As determined by 3-week moving averages computed from Table 6, the peaks of the autumn and winter epidemics of reported influenza, respectively, fell as follows in the several cities.

City	Week ended—				
Boston	Nov. 22 Ill-defined	Feb. 21. Feb. 28. Mar. 14. Ill-defined. Feb. 28. Feb. 14.			

In each of these epidemics there is a spread of four weeks between the times of occurrence of the earliest and the latest peaks. represents about the same degree of time correspondence as has been shown (Table 5 and fig. 3) with respect to epidemics determined from the incidence of all respiratory diseases considered as a single composite group.

REPORTED PREVALENCE OF INFLUENZA IN RELATION TO MORTALITY FROM INFLUENZA AND PNEUMONIA

Analysis of statistics of mortality for numerous cities of the United States shows that, corresponding to the increased prevalence of influenza reported from the six student groups for the winter of 1924-25, there was, during this winter, a quite general increase in mortality from influenza and pneumonia as compared with the winter While this increase in mortality was quite general for the country, it was slight, and only in the West South Central States did the rates rise above the normal sufficiently to indicate an epidemic.

Table 10.—Mortality from influenza and pneumonia and reported cases of influenza in six cities, for 6-month periods, December, 1925-May, 1925

Period	Boston	Chicago	Colum- bus	Wash- ington	San Fran- cisco	New Orleans	Average 1 of six cities
December, 1923-May, 1924.	94. 9	71. 7	66.7	97. 4	77. 8	120. 9	88. 3
June, 1924-November, 1924.	43. 3	28. 9	32.2	39. 9	40. 4	47. 7	38. 8
December, 1924-May, 1925.	121. 9	81. 1	112.2	82. 8	74. 2	131. 9	100. 7
REPORTED INFLUENZA CA	SE RA	TES, PI	ER 100,0	00 POP	ULATI	on!	edian.
Dec. 2, 1923-May 31, 1924	10.9	17. 6	8	8.9	15.3	28. 6	16.3
June 1, 1924-Nov. 29, 1924	5.6	3. 5		2.2	6.7	12. 2	6.0
Nov. 30, 1924-May 30, 1925	43.6	32. 2		6.8	36.7	79. 9	30.9

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Data from Mortality Statistics, U. S. Bureau of the Census.
 Arithmetic mean of rates, giving the same weight to each group, irrespective of its size.
 Cases reported by attending physicians to the city health departments and published in the Public Health Reports.
 No determined

Collins (1930); Collins, Frost, Gover, and Sydenstricker (1930).

Table 10 shows, in half yearly periods, the death rate from influenza and pneumonia in the total population of each of the six large cities containing or near to the six student groups. Of the six cities, two—Washington and San Francisco—showed no increase in influenza-pneumonia mortality in the six months December-May, 1924-25, as compared with the corresponding period of the preceding year. Each of the remaining four showed a slight but definite increase; but, as shown in the following summary, the extent of the increase in mortality in the several cities seems to bear no close relation to the increase in incidence of influenza among the student groups.

(20) Inc. p. 123 (19) (by Arminga milyabin Line Inc. p. 19) (16) (a. d. Lyne manor a codiffe	Boston	Chica-go	Colum- bus	New Orleans
Increase in incidence of influenza, December-May, 1924-25, as compared with same period, 1923-24—Cases per 1,000	119	40	92	182
Increase in mortality from influenza and pneumonia, December-May, 1924-25, as compared with same period 1923-24—Deaths per 100,000	27	. 9	46	, 11

Moreover, inspection of Figure 8 shows no striking parallelism between the curve of influenza incidence in the several student groups and mortality in the total population of the six cities in or near which the student groups are located.

SUMMARY

Data are presented on the incidence and certain epidemiological features of the minor respiratory diseases, as indicated by regular semimonthly reports rendered by rather large groups of students at several American universities in widely separated localities, and by similar reports from some 1,500 families. The students' reports cover 18 months, and the family reports extend through 2½ years.

For the year ended May 30, 1925, the mean attack rate in the 10 groups of student reporters was 2,947 per 1,000, an average of approximately three attacks per person. For the entire period, and for each of its major seasonal subdivisions, the attack rates in the several student groups were remarkably uniform, showing no consistent relation to latitude, longitude, or climate.

In the family group, the attack rates in corresponding periods were consistently lower than in the student groups, but it is possible that this may have been due wholly or in part to more complete reporting by the students.

Both in the student and the family groups, the attack rates in corresponding seasons of successive years (1923-1926) showed a declining trend. This may have been due, however, to progressive slackening of interest in reporting.

Taking the mean weekly attack rate throughout the year as an axis, the weekly attack rates in each group and in each year were

quite consistently below this level from about the first of April to the first of September, and generally above this level from September to March, inclusive. The minimum attack rates were observed usually in the latter half of July or the first half of August.

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During the season of high prevalence, from September to March, inclusive, the incidence curve in each locality exhibited a series of oscillations, constituting a succession of epidemics, each of several weeks' duration, rather irregular in sequence and magnitude, but clearly not attributable to mere chance fluctuation.

These epidemics in six student groups in widely separated localities showed a striking time correspondence of about the same order as was observed in the influenza epidemics of 1918, 1919, and 1920.

Cases reported as influenza constituted about 5.6 per cent of the total reported from the student groups from December, 1923, to May, 1925, and about 11.7 of those-recorded in the family group for the same period of 18 months.

While the gross attack rates from all the minor respiratory disorders tended generally to decrease throughout the period of observation, the reported incidence of so-called influenza tended to increase, being highest in the winter of 1925-26.

The seasonal distribution of cases reported as influenza differed from that of cases classed (clinically) as coryza, in that the latter reached their highest prevalence in the autumn, while the highest incidence of influenza occurred each year in the winter or spring months. Hence, the autumn epidemics observed each year differed from those observed in the late winter and spring in that the latter comprised larger proportions of cases classed as influenza.

The increased prevalence of so-called influenza observed in most of the student groups in the winter and spring of 1924-25 coincided generally with an increase in mortality from influenza-pneumonia in the cities represented. However, in individual cities the extent of the increase in mortality bore no obvious relation to that of the

increase in prevalence of influenza.

ACKNOWLEDGMENTS

The authors wish to make acknowledgment to Surgeon J. G. Townsend, United States Public Health Service, who collected and in part compiled the data presented; to Mr. Edgar Sydenstricker, Principal Statistician, and Mr. Selwyn D. Collins, Senior Statistician in charge of the Office of Statistical Investigations of the Public Health Service, for their personal assistance and for making available the facilities of the Office; to the Influenza Commission of the Metropolitan Life Insurance Company for financial assistance; and to the many students and families whose interest and cooperation provided the material.

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COURT DECISION RELATING TO PUBLIC HEALTH

Revocation by city board of health of permission to conduct a place for the keeping and slaughter of fowl upheld.—(Massachusetts Supreme Judicial Court; City of Revere v. Riseman et al., 181 N. E. 716; decided July 2, 1932.) On August 6, 1931, the board of health of the city of Revere prohibited the maintenance, on certain specified premises in the city, of a place for the keeping and slaughter of fowl. A month before the board had approved plans and specifications for a new modern building to replace a condemned building on such premises and construction had begun on the day of approval. The new building was completed on September 1, 1931, and one Riseman, who had since 1910 held a license to conduct a slaughterhouse on the said premises, continued to conduct a slaughterhouse there, notwithstanding the action of the board taken on August 6. In a suit brought by the city to enjoin the maintenance of a slaughterhouse on the premises specified, the supreme court, in affirming a decree for the city, stated in part as follows:

* * the board of health of both city and town, by the provisions of R. L. c. 75, sec. 91, now G. L. c. 111, sec. 143, has express authority to revoke a permit to exercise, in a particular place, building, or otherwise, a trade or employment such as is described in G. L. c. 111, sec. 143. [Case cited.] It is manifest that an assignment of a place to exercise a trade or employment, such as is described in R. L. c. 75, sec. 91 (G. L. c. 111, sec. 143), does not create a vested right in the donce of the privilege granted and that a revocation of such a privilege does not deprive such a person of any constitutional rights. A donce of a privilege to exercise a trade or employment of the character described in R. L. c. 75, sec. 91 (G. L. c. 111, sec. 143) may rightfully be deprived of the enjoyment of such a

privilege whenever, in the opinion of the board of health, the continuance of such a trade or employment has become hurtful to the inhabitants, injurious to their estates, dangerous to the public health, or is attended by noisome and injurious odors. [Cases cited.] This is but an exercise of the police power, and the privilege granted may be assumed to have been accepted by the donee upon the understanding that such reserved power of revocation may be exercised by the board of health. The case at bar does not fall within the rule that a license once granted is not revocable unless the right to revoke is expressly or impliedly reserved. [Cases cited.]

DEATHS DURING WEEK ENDED AUGUST 13, 1932°

[From the Weekly Health Index, issued by the Bureau of the Census. Department of Commercel

cost, W. H., Cover, M. and Symmoticiser, 15, (1920)	Week ended	Corresponding week,
independ and passing in 50 bare object of the United	Aug. 13, 1932	1931
Data from industrial insurance companies: Policies in force. Number of death claims. Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies, first 32 weeks of year, annual rate. Data from 85 large cities of the United States: Total deaths. Deaths per 1,000 population, annual basis. Deaths under 1 year of age. Deaths under 1 year of age per 1,000 estimated live births 1. Deaths per 1,000 population, annual basis, first 32 weeks of year.	71, 360, 353 11, 543 8. 5 9. 9 6, 589 9. 4 542 44 11. 5	74, 988, 817 12, 927 9. 0 10. 2 6, 763 9. 8 654 51 12. 4

The figures for the insurance companies and large cities published as for the week ended Aug. 8, 1932, on page 1782 of the public Health Reports for Aug. 26, 1932, were for the week ended Aug. 6, 1932.
 1932, 81 cities; 1931, 77 cities.

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Let the city of a place by the first recent such slaurement of fort, A

construction are new contract to the companies of the second and are contracted

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PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended August 20, 1932, and August 22, 1931

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended August 20, 1932, and August 23, 1931

MODER LANDING	Diph	theria	Infl	ienta	Measles		Meningococcus meningitis	
Division and State	Week ended Aug. 20, 1932	Week ended Aug. 22, 1931	Week ended Aug. 20, 1932	Week ended Aug. 22, 1931	Week ended Aug. 20, 1932	Week ended Aug. 22, 1931	Week ended Aug. 20, 1932	Week ended Aug. 22, 1931
New England States:			W-12	14-21-	337		100	-
Maine 1	3	5			3	5	1	Cont.
New Hampshire		1				2	0	
Vermont		3			2	2	0	M
Massachusetts		31	1	1	55	29	1	
Rhode Island	1	1			1	16	0	
Connecticut	5904	2		3	17	6	0	1
Middle Atlantic States:	N. 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CHICAR	17 0 K. T. S.	15 E - C	D. Mark	0.31.07	letting that	
New York	33	39	14		120	158	3	35164
New Jersey	20	13			.49	16	2	
Pennsylvania	28	49			50	69	3	11
East North Central States:	16.055	SELVICE AND	C. T. HOLLON	DESCRI	100	1500000	80 F-36-20	
Ohio	16	19	3	2	19	13	0	13000
Indiana	22	8	12	4	5	.1	8	May 1
Illinois	39	36	11	4	22	39		
Michigan	13	14		2000000	101	22	2	1
Wisconsin	7	12	13	7	21	32	2	(B)
West North Central States:	16	1000		127			Circles No.	160
Minnesota	1	8	4	1	4	5	1.1	Charles I
Iowa	6	4	0.000		0.000	2	0	253
Missouri	11	16			3	5	1	S 11 11/1
North Dakota	3	1				9	1	02 3 Sel-
South Dakota	5			*******	4	2	0	1000
Nebraska	7	3			DYSC NOT	4	1	
Kansas	6	5			16	2	2	100
outh Atlantic States:	100	200						
Delaware	145 TOST	CONTRACTOR OF THE PARTY.	0.65.583		1	Towns Co.	0	St. K.
Maryland 3 8	13	11	3	2	ā	3	0	A
District of Columbia	10	i	i	C4.35***	9 9 9 9	1	0	
Virginia 3	33		1000		12	150		400
West Virginia	17	7		2	61	21	i	
North Carolina	26	31	11	DOM:	25	9	0	W. Sales
Bouth Carolina	9	31	89	100	7	12	0	14-19
		0		100		12	0	14 3000
Georgia I	22		31		20		-	

See footnotes at end of table.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended August 20, 1932, and August 22, 1931—Continued

	Diph	theria	Influ	ienza	Me	asles	Menins meni	gococcu ngitis
Division and State	Week ended Aug. 20, 1932	Week ended Aug. 22, 1931	Week ended Aug. 20, 1932	Week ended Aug. 22, 1931	Week ended Aug. 20, 1932	Week ended Aug. 22, 1931	Week ended Aug. 20, 1932	Week ended Aug. 22, 190
East South Central States:	C. Carrie	NY IVER	in fact	1 - 10 - 34 - 12 - 13 14	15	To Sol	armuca tribatch	1,51
Kentucky	24	16				12	1	0.25
Tennessee	9	19	20	18	2	3 12	3 2 0	139
Alabama	29 14	31				10	ő	1300
Alabama Mississippi West South Central States:	2000 1 0	115 30	CHARLET.	CT T				200
Arkansas	. 12	6 1			4	1	0	V23
Louisiana	18 27	21	19	3	1	1	1	
Oklahoma 4	27	25	10	2	7		0	17
Texas 4	99	10	10					Page 1
Montana	3 1	2 74			33	6 2 2 2	0	100
Montana Idaho Wyoming	******	1				2	0	MY .
Wyoming	1				2	2	0	ALCO P
Colorado	6 3	5					0	1000
New Mexico	i	2					0	
Utah 3				6	3	8	0 100	200
Pacific States:								1800
Washington	3	8 7	12		10	6 5	0	-
OregonCalifornia	27	49	70	6 8	24 24	29	0	
California	2000	10/2	1000				-	
Total	600	559	336	183	749	574	46	
Williams of the second	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
Division and State	Week ended Aug. 20, 1932	Week ended Aug. 22, 1931	Week ended Aug. 20, 1932	Week ended Aug. 22, 1931	Week ended Aug. 20, 1932	Week ended Aug. 22, 1931	Week ended Aug. 20, 1932	Week ended Aug. 2 1931
CONT. The State of				0.015		VI-21-3	No. 15.	1400
You Findland States:	The said	1	13.	THE LA		18 5	100	
New England States: Maine 3.	3	7	1	7	0	0	. 0	W.
Maine 1	3 0	7	1	1	0	0	1	
Maine 1	3 0	7 7	1 4 5	1	0	0 0 8	9 1 0	
Maine 3 New Hampshire	3 0 0 4 0	7 7 115	G7	1 4 74 9	0 0 0	0 0 8 0	6	
Maine 3 New Hampshire	3 0 0 4 0 2	7 7	1 4 5 67 4 17	1 4 74	0 0 0 0	0 0 8 0 0	0 1 0 6 1 3	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiont Iddle Atlantic States	0 2	7 7 115 22 115	67 4 17	1 4 74 9 10	0	0	0 6 1 3	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiont Iddle Atlantic States	4 0 2 27	7 7 7 115 22 115	67 4 17	1 4 74 9 10	0	1	0 6 1 3	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiont Iddle Atlantic States	0 2	7 7 7 115 22 115	67 4 17	1 4 74 9 10	0	1	0 6 1 3	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiont Middle Atlantic States: New York 1 New Jersey Pennsylvania ast North Central States:	27 19 88	7 7 7 115 22 115 555 78 10	67 4 17 117 20 80	1 4 74 9 10 86 18 78	0 1 0 0	0 1 0 0	0 6 1 3 50 10 68	1
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout diddle Atlantic States: New York 1 New Jersey Pennsylvania ast North Central States: Ohio	27 19 88	7 7 7 115 22 115 855 78 10	67 4 17 117 20 80 62	1 4 74 9 10 86 18 78	0 1 0 0	0 1 0 0	0 6 1 3 50 10 68	1
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout Aliddle Atlantic States: New York 1 New Jersey Pennsylvania 2ast North Central States: Ohio Indiana	27 19 88 1	7 7 7 115 22 115 555 78 10 2 3	67 4 17 117 20 80 62 16	1 4 74 9 10 86 18 78	0 1 0 0	0 1 0 0 6 11	0 6 1 3 50 10 68	1
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout Iddle Atlantic States: New York 1 New Jersey Pennsylvania ast North Central States: Ohio Indiana Illinois	27 19 88 1 0 5	7 7 7 115 22 115 555 78 10 2 3 36	67 4 17 117 20 80 62 16 51	1 4 74 9 10 86 18 78 61 15 60	0 1 0 0 1 2 2	0 1 0 0 6 11	0 6 1 3 50 10 68 58 34 53	1
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout diddle Atlantic States: New York 1 New Jersey Pennsylvania ast North Central States: Ohio Indiana Illinois Michigan	27 19 88 1	7 7 7 115 22 115 555 78 10 2 3	67 4 17 117 20 80 62 16	1 4 74 9 10 86 18 78	0 1 0 0	0 1 0 0	0 6 1 3 50 10 68	1
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiont fiddle Atlantic States: New York 1 New Jersey Pennsylvania ast North Central States: Ohio Indiana Hilinois Michigan Wisconsin West North Central States:	27 19 88 1 0 5 3 2	7 7 7 115 22 115 555 78 10 2 3 36 68 26	67 4 17 117 20 80 62 16 51 48 8	1 4 74 9 10 86 18 78 61 15 60 55	0 1 0 6 1 2 2 3 0	0 1 0 0 6 11 8 2	0 6 1 3 50 10 68 58 34 53 14	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout fliddle Atlantie States: New York 1 New Jersey Pennsylvania ast North Central States: Ohio Indiana Illinois Michigan Wisconsin Vest North Central States: Mrmesota	27 19 88 1 0 5 3 2	7 7 7 115 22 115 555 78 10 2 3 36 68 26 31	67 4 17 117 20 80 62 16 51 48 8	1 4 74 9 10 . 86 18 78 61 15 60 55 17	0 1 0 6 1 2 2 3 0	0 1 0 0 6 11 8 2	0 6 1 3 50 10 68 58 34 53 14	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout fliddle Atlantie States: New York 1 New Jersey Pennsylvania ast North Central States: Ohio Indiana Illinois Michigan Wisconsin Vest North Central States: Mrmesota	27 19 88 1 0 5 3 2	7 7 7 115 22 115 556 78 10 2 3 3 36 6 8 26 31 8	67 4 17 117 20 80 62 16 51 48 8	1 4 4 9 10	0 1 0 6 1 2 2 3 0	0 1 0 0 6 11 8 2	0 6 1 3 50 10 68 58 34 53 14 1	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiont Iddle Atlantic States: New York 1 New Jersey Pennsylvania ast North Central States: Ohio Indiana Illinois Michigan Wisconsin West North Central States: Minnesota Iowa Missouri	27 19 88 1 0 5 3 2	7 7 7 115 22 115 556 78 10 2 3 3 36 6 8 26 31 8	67 4 17 117 20 80 62 16 51 48 8	1 4 4 9 10	0 0 0 1 2 2 3 0 1 1 1	0 1 0 0 6 11 8 2	0 6 1 3 50 10 68 58 34 53 14 1	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout fliddle Atlantie States: New York 1 New Jersey Pennsylvania ast North Central States: Ohio Indiana Illinois Michigan Wisconsin Vest North Central States: Mimesota Iowa Missouri North Dakota	27 19 88 1 0 5 3 2	77 116 22 115 555 78 10 2 3 36 68 26 31 8 3 2	67 4 17 117 20 80 62 16 51 48 8	1 4 4 9 10	0 1 0 0 1 2 2 3 0 1 1 1 1	0 1 0 0 6 11 8 2	0 6 1 3 50 10 68 58 34 53 14 1	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout fliddle Atlantie States: New York 1 New Jersey Pennsylvania ast North Central States: Ohio Indiana Illinois Michigan Wisconsin Vest North Central States: Minnesota Iowa Missouri North Dakota South Dakota South Dakota	27 19 88 1 0 5 3 2	7 7 7 115 22 115 556 78 10 2 3 3 36 68 26 31 8 3 2 0 0 0	67 4 17 117 20 80 62 16 51 48 8	1 4 4 9 10	0 1 0 0 1 2 2 3 0 1 1 1 1	0 1 0 0 6 11 8 2	0 6 1 3 50 10 68 58 34 53 14 1	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout fliddle Atlantie States: New York 1 New Jersey Pennsylvania ast North Central States: Ohio Indiana Illinois Michigan Wisconsin Vest North Central States: Minnesota Iowa Missouri North Dakota South Dakota South Dakota	27 19 88 1 0 5	77 116 22 115 555 78 10 2 3 36 68 26 31 8 3 2	67 4 17 117 20 80 62 16 51 48 8	1 4 7 4 9 10	0 0 0 1 2 2 3 0 1 1 1	0 1 0 0 6 11	0 6 1 3 50 10 68 58 34 53 14	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout fiddle Atlantic States: New York 1 New Jersey Pennsylvania cast North Central States: Ohio Indiana Illinois Michigan Wisconsin Vest North Central States: Minnesota Iowa Missouri North Dakota South Dakota South Dakota Kansas Mithatianic States: Monte Central Missouri North Dakota South Atlantic States: Monte Central Missouri North Dakota South Atlantic States:	27 19 88 1 0 5 3 2 8 1 1 1 1	77 7115 222 115 555 78 10 2 3 36 68 26 31 8 3 2 0 0 1	67 4 17 117 20 80 62 16 51 48 8 10 9 11 1 2	1 4 4 4 7 9 10 10 10 15 15 15 15 17 222 10 11 1 0 8 2 17	0 1 0 0 1 2 2 3 3 0 1 1 1 1 1	0 0 0 6 11 8 2 2 0 3 3 5 1 2 4 3 3	0 6 1 3 3 50 100 68 58 34 53 11 1 1 7 7 23 4 2 0 15	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout fiddle Atlantic States: New York 1 New Jersey Pennsylvania cast North Central States: Ohio Indiana Illinois Michigan Wisconsin Vest North Central States: Minnesota Iowa Missouri North Dakota South Dakota South Dakota Kansas Mithatianic States: Monte Central Missouri North Dakota South Atlantic States: Monte Central Missouri North Dakota South Atlantic States:	27 19 88 1 0 5 3 2 8 1 1 1 1	77 115 222 116 556 78 10 2 3 36 68 8 32 9 0 1 1	67 4 17 117 20 80 62 16 51 48 8 10 9 11 1 2 13 17	1 4 4 4 7 4 9 9 10 10 8 8 6 18 7 8 6 1 15 5 5 5 17 7 2 2 2 10 11 1 0 8 8 2 17 1	0 1 0 0 1 2 2 3 3 0 1 1 1 1 1 1	0 0 0 6 11 8 2 0 3 5 5 1 2 4 3 3	0 6 1 3 3 50 100 68 58 34 53 11 1 1 7 7 23 4 2 0 15	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout fiddle Atlantic States: New York 1 New Jersey Pennsylvania cast North Central States: Ohio Indiana Illinois Michigan Wisconsin Vest North Central States: Minnesota Iowa Missouri North Dakota South Dakota South Dakota Kansas Mithatianic States: Monte Central Missouri North Dakota South Atlantic States: Monte Central Missouri North Dakota South Atlantic States:	27 19 88 1 0 5 3 2 8 1 1 1 1	77 7115 222 115 555 78 10 2 3 36 68 26 31 8 3 2 0 0 1	67 4 17 117 20 80 62 16 51 48 8 10 9 11 1 2 13 17	1 4 4 4 7 9 10 10 10 15 15 15 15 17 222 10 11 1 0 8 2 17	0 0 0 1 2 2 3 0 0 1 1 1 1 1 1 0 0 0	0 0 0 6 11 8 2 2 0 3 3 5 1 2 4 3 3	0 6 6 1 3 5 5 6 6 8 5 8 3 4 4 1 1 7 7 2 3 4 4 2 9 6 1 5 3 4 7 1	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout Iddle Atlantic States: New York 1 New York 2 Pennsylvania ast North Central States: Ohio Indiana Illinois Michigan Wisconsin West North Central States: Mimesota Iowa Iowa Missouri North Dakota South Dakota Nebraska Kansas Outh Atlantic States: Delaware Maryland 1 District of Columbia. Vermins 3	27 19 88 1 0 5 3 2 8 1 1 1 1	77 115 222 115 555 78 10 2 3 36 68 26 83 2 0 0 1 0 2 2 2	67 4 17 117 20 80 62 16 51 48 8 10 9 11 1 2 13 17	1 4 4 74 9 10 86 18 78 61 15 55 17 22 10 11 10 8 8 27 17 17 19 10 10 10 10 10 10 10 10 10 10 10 10 10	0 0 0 1 2 2 3 0 0 1 1 1 1 1 1 0 0 0	0 0 0 6 11 8 22 0 3 3 5 12 4 3 3 3	0 6 6 1 3 3 50 10 10 68 58 34 53 34 14 1 1 7 7 23 4 2 0 15 3 47 1 1 40	
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout diddle Atlantic States: New York 1 New York 2 Pennsylvania last North Central States: Ohio Indiana Illinois Michigan Wisconsin West North Central States: Mimesota Iowa Missouri North Dakota South Dakota Nebraska Kansas Oth Atlantic States: Delaw are Maryjand 1 District of Columbia. Virginia 3	27 19 88 1 0 5 3 2 8 1 1 1 1	77 115 222 115 555 78 10 2 3 36 68 26 83 2 0 0 1 0 2 2 2	67 4 17 117 20 80 62 16 51 48 8 10 9 11 1 2 13 17	1 4 4 4 4 9 9 10 10 10 15 15 15 15 15 17 12 10 11 11 10 8 8 2 17 1 9 6 16 16 16 16 16 16 16 16 16 16 16 16 1	1 2 2 3 3 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 6 11 8 22 0 3 3 5 12 4 3 3 3	0 6 6 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout Middle Atlantic States: New York 1 New Jersey Pennsylvania last North Central States: Ohio Indiana Illinois Michigan Wisconsin Wisconsin Wisconsin Wisconsin North Central States: Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansss Iouth Atlantic States: Delaware Maryland 1 District of Columbia Virginia 1 West Virginia West Virginia North Carolina	27 19 88 1 0 5 3 2 8 1 1 1 1	77 115 222 115 555 78 10 2 3 36 68 26 83 2 0 0 1 0 2 2 2	67 4 17 117 200 80 62 16 51 48 8 10 9 11 1 2 13 17 10 2 26 26 26 27 11 12 20 12 13 14 14 15 16 16 16 16 16 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	1 4 4 4 7 4 9 9 10 10 8 8 6 18 7 8 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 0 0 1 2 2 3 3 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 6 11 8 22 0 3 3 5 12 4 3 3 3	0 6 6 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1
Maine 1 New Hampshire Vermont Massachusetts Rhode Island Connectiout Iddle Atlantic States: New York 1 New York 2 Pennsylvania ast North Central States: Ohio Indiana Illinois Michigan Wisconsin West North Central States: Mimesota Iowa Iowa Missouri North Dakota South Dakota Nebraska Kansas Outh Atlantic States: Delaware Maryland 1 District of Columbia. Vermins 3	27 19 88 1 0 5 3 2 8 1 1 1 1	77 115 222 116 556 78 10 2 3 36 68 8 32 9 0 1 1	67 4 17 117 20 80 62 16 51 48 8 10 9 11 1 2 13 17	1 4 4 4 4 9 9 10 10 10 15 15 15 15 15 17 12 10 11 11 10 8 8 2 17 1 9 6 16 16 16 16 16 16 16 16 16 16 16 16 1	1 2 2 3 3 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 6 11 8 2 0 3 5 5 1 2 4 3 3	0 6 6 1 3 3 50 10 10 68 58 34 53 34 14 1 1 7 7 23 4 2 0 15 3 47 1 1 40	

See footnotes at end of table.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended August 20, 1932, and August 22, 1931—Continued

	Polion	nyelitis	Scarle	t fever	Smallpex		Typho	id fever
Division and State	Week ended Aug. 20, 1932	Week ended Aug. 22, 1931						
East South Central States:			11.189		10/03	(14.70.7	
Kentucky	2	4	. 54	6	0	. 0	120	47
Tennessee	1	1	20	34	1		81	112
Alabama 1	0	4	22	11	0	0	36	47
Mississippi	0	0	12	14	0	7	20	- 41
West South Central States:	200	4 - 2 - 3	100	1000	Service.	11 11 15 15	NAME OF TAXABLE PARTY.	Production of the last of the
Arkansas	1	0	6	0	0	3	24	45
Louisiana	1	0	9	12	1	0	35	69
Oklahoma 1	0	0	6	13	1	1	83	1450
Texas 1	2	0	17	. 13	2	2	28	69 49 23
Mountain States;	200	/ -			Carl A T		-	0.0.1
Montana.	0		4	4		0	2	
	0			3	3	0	ő	
	2			0		0	0	100
	0	U	1	4		0	0	
Colorado	0		3		1		3	
New Mexico	0	1	2		0	0	0	0
Arizona	0	0	1	2	0	0	1	
Utah 3	0	0	0	1	0	0	1	1
Pacific States:			-	400000	AMBINER	First Co.	P 8777	1
Washington	0	3	5	15	6	3	3	7
Oregon	0	0	3	6	8	9	3	7
California	6	3	42	36	. 5	8	12	18
Total	187	1, 135	867	822	45	103	1, 147	960

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of cases reported monthly by States is published weekly and covers only those States from which reports are received during the current week:

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- ales	Pel- lagra	Polio- myelitis	Scarlet fever	Small- per	Ty- phoid fever
July, 1938			3.200	2011	100	Min.				
California	12	139	116	. 6	318	8	17	178	28	42
Georgia		11	103	308	53 236	88	2	178 21 49	3 0	352
Minnesota	2	25	9		106	*******	10	120 121	13	
Missouri	8	107	2	43	91	2	6	121	******	141
New Jersey	5	66	8	1	1, 017		12	217	0	25 26 98 200 163
New Mexico	16	25 228	******	12 7	3, 547		19	12	31	20
North Carolina	10	67	73	1	741	283	19	884	5	200
Ohio	A	92	26	4	733	1	14	327	19	161
Rhode Island		11	2		46		1	60	0	WALL TO
West Virginia	2	36 30	11		546	1	3	60 17 66	0	196
Wisconsin	7	30	50		662		7	66	1	18

New York City only.
 Week ended Friday.
 Typhus fever, week ended Aug. 20, 1932, 33 cases: 1 case in Maine, 1 case in Maryland, 1 case in Virginia, 7 cases in Georgia, 4 cases in Florida, 7 cases in Alabama, and 12 cases in Texas.
 Figures for 1932 are exclusive of Oklahoma City and Tulsa.

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July, 1932		Mumps—Continued.	Cases
Cinones post	Cases	Ohio.	109
California	521	Rhode Island	
Georgia	25	West Virginia	
Maine	100	Wisconsin Ophthalmia neonatorum:	165
Minnesota	100	The first term of the first te	
Missouri	45	California.	
New Jersey	171	New Yerk	
New Mexico	12	New York	
New York	968	North Carolina.	
North Carolina	58	Wisconsin	
Ohio	248	Paratyphoid fever:	10
Rhode Island	18		3
West Virginia	17	California	
Wisconsin	285	New Jersey	
Conjunctivitis:		New York	
Georgia	2	North Carolina	
Diarrhea and enteritis:	653	Obio	
Ohio	49		
Dysentery:	1.0	Puerperal septicemia: New York	8
California (amebic)	10	- Ohio	3
California (bacillary)	26	Rabies in animals;	
Georgia	51	California	25
Minnesota (amebic)	3	Missouri	4
Minnesota	2	New Jersey	27
New Mexico	1	New York 1	1
New York	15	Rhode Island	CT.
Ohio	16	Relapsing fever:	
West Virginia	15	California	1
Food poisoning:		Rocky Mountain spotted or tick fever:	
California	46	California.	3
Ohio	18	Septic sore throat:	
German measles:	1	California.	
California	27	Georgia	18
New Jersey	36	Missouri	17
New Mexico	1	New York	16
New York	65	North Carolina	12
North Carolina	8	Ohio	71
Ohio.	8	Rhode Island	1
Wisconsin	3	Tetanus:	9.8
Granuloma, coccidioidal:		California	
California	1	Georgia	2
Lead poisoning:	1124	Maine	1
New Jersey	2	Minnesota	1
Ohio	15	New Jersey	2
Leprosy:	- Car	New York	6
California	1	Ohio.	3
Lethargic encephalitis:	2210	Rhode Island	1
Celifornia	6	Trachoma:	Jan S
Georgia	2	California	21
Minnesota	1	Minnesota	2
New Jersey	6	New Jersey	7
New York	6	New York	
Ohio	2	Ohio.	1
Wiseonsin	1	Trichinosis:	100
Milk sickness:	3	California	14
Ohio	4	Maine.	1
Mumps;	883	New Jersey	
California	303	New York	
Georgia	32	Tularsemia:	40.
Maine	5	California	1
Missouri	63	Georgia	1
New Jersey	354	Minnesota	
	13		
New Mexico	10 1	Missouri	

Typhus fever:	Cases	Whooping cough:	Cases
Georgia	. 26	California	1, 350
North Carolina	. 2	Georgia	89
Undulant fever:	D 1920	Maine	59
California	. 14	Minnesota	206
Georgia	2	Missouri	393
Maine	1	New Jersey	580
Minnesota	. 11	New Mexico	37
Missouri.	. 35	New York	1, 549
New Jersey	. 1	North Carolina	1,020
New York	22	Ohio	1,094
Ohio	21	Rhode Island	49
Wisconsin	2	West Virginia	
Vincent's angina:	of Shirely	Wisconsin	906
Maine	2		
New York 1	97		Trans.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 93 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 33,465,000. The estimated population of the 86 cities reporting deaths is more than 31,900,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended August 13, 1932, and August 15, 1931

	1932	1931	Estimated expectancy
Cuses reported	100		
Diphtheria:	15.000		100
46 States	600	553	
93 cities	159	205	348
Mensles:	Sens Se	1000	The state of the s
45 States	902	884	Grad 940 3000
93 cities	316	232	
Meningococcus meningitis:	010	*02	
46 States	36	60	CONTRACT.
93 cities	18	32	
Poliomyelitis:	10		*********
46 States	161	1 040	
	101	1,040	
Scarlet fever:			But .
46 States	939	721	
93 cities	300	211	241
Smallpox:	Marine Street		
46 States	56	311	
93 cities	10	8	12
Typhoid fever:	Wall Comment	Prosto	P425/96/18/25/11
46 States	1, 179	945	
93 cities	167	130	140
Deaths reported	7		
Denino reportes			CHARLES .
influenza and pneumonia:	100		20.00
86 cities	255	284	DOTO PER S
oo cities	200	201	
			AND NOTE AND
86 cities	0	0	

¹ Exclusive of New York City.

City reports for week ended August 13, 1932

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding weeks of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded, and the estimated expectancy is the mean number of cases reported for the week during non-epidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1923 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		Diph	theria	Influ	enza			
Division, State, and city	Chieken pox, cases reported	Cases, estimated expect- ancy	Cases reported	Cases reported	Deaths reported	Measier, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths reported
NEW ENGLAND	141 10 121	151						1175
Maine:			75 H.	100	Angle	47.33	14.000	91 12.3
Portland	0	0	0		0	0	0	1
New Hampshire: Concord	0		0		0	0	0	
Manchester	0	0	0		ő	o	0	
Nashua	0	0	Ö		0	0	0	
Vermont:	2213		GENERAL STREET	2000	Y			
Barre	0	0	0		0	0	0	
Massachusetts: Boston	9	13	16		0	22	17	11
Vall River	ő	1	0		0	0	0	11
Springfield	6	0	0		0	0	0	0
Worcester	5	2	0		0	5	1	1
Rhode Island:		1000		CONTRACTOR OF THE PARTY OF THE	Carl Ca	100 20 40		100
Providence	0	0	0		0	0	0	0
Connecticut:					********			
Bridgeport	3	1	1	To A Committee	0		0	
Hartford	0	1	0		0	6	0	1
New Haven	1	0	0		0	0	0	0
MIDDLE ATLANTIC	1503						27737	
New York:		THE LOCAL		0100034	18 145 11 11	Harris I	175 AS	
Buffalo New York	32	6	0		0	7	0	9
New York	32	87	47	1	1	77	37.	80
Rochester	3 2	1	1		0	1	3	1
Syracuse New Jersey:		1	0		0	0	0	3
Camden	0	1	5	2223	0	0	0	HERON L
Newark	3 0	7	1	1	o l	15	0 7	
Trenton	0	1	0		0	7	1	- 3
Pennsylvania:			1 2.				TAME TO	
Philadelphia Pittsburgh	8 2	27	1	2	0	6	10	13
Reading	i	0	ô		0	2	1	10
Scranton	i.		3			ő	0	
BAST NORTH CENTRAL	13 31	100		100	Strok			
Ohio:		111111111111111111111111111111111111111	1000		0		0 000	
Cincinnati	0	2	9		0	0		200
Cleveland	0	14	2 3 4 1	2	0	. 0	. 0	6
Columbus	0	2 2	4		0	0		ő
Toledo	2	2	1	2	0	4	0	3
Indiana:	24.7			2 3 3	100	27/23/27	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Fort Wayne	0	1 2	1					
South Bend	0	i	0		0	0	6	0
Terre Haute	0	ô	o l		0	0	0	. 0
Illinois:	1300		1200		1	7 10 10	1	Marie .
Chicago	27	44	. 8	1	0	18	4	18
Springfield		0 -					20 May 1	

		Diph	theria	Influ	enza	100		Pneu-
Division, State, and city	Chicken pox, cases reported	Cases, estimated expect- ancy	Cases reported	Cases reported	Deaths reported	Measles, cases re- ported	Mumps, cases re- ported	monia, deaths reported
EAST NORTH CEN- TRAL—continued							State La	e ja mi
Michigan:	1.00		- 1000		. 0	85	9	COUNTY 1
DetroitFlint	0	21	8		0	0	3 0	and the later
Grand Rapids	1	Ô	0		0	0	. 5	Bull
Visconsin:			0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	0	0	- Total
Kenosha Madison	0	0	0			0	2	******
Milwaukee	13	6	1		. 0	1	1 2	1006-F
Racine	1	. 1	. 0		0	1 0	0	1
Superior	2	0					CATORI	Part land
VEST NORTH CENTRAL						J. 24	1	5.0
dinnesota:		-	0		0	2	4	1174
Duluth	8 2	0 7	0		2	2	1	1000000
Minneapolis St. Paul	1	3	0		0	1	1	12
owa:	0	11/- 11/-		0	ELCCI	0	0	19
Des Moines	0	0	8 0	0	*********	0	0	
Sioux City Waterloo	0	0	0		********	0	0	
dissouri:	16 33	9		512051	0	2	4	1
Kansas City	0	1 0	0		0	0	1	Dr. C.N.
St. Joseph	0 3	11	7			1	0	Marie Co
St. Joseph St. Louis North Dakota:		1 13		100000	0	0	0	10000
Fargo Grand Forks	2 0	0	0			0	0	
South Dakota:			1.5.15.3					100
Aberdeen	. 0	0	0			0	0	
Nebraska:	0	2	2		0	0	0	
Omaha Kansas:					400	0		of mostly
Topeka Wichita	8 0	0	0		0	0	0	3
SOUTH ATLANTIC	100	" Cole	1187-119	1		Early	130	Silver!
Delaware:	0.00		0		. 0	1	0	STORE TO
Wilmington Maryland:	. 0	0			1000	0.000000	- House	11.12
Baltimore	6	7	3	1	0	3	12	36
Cumberland	0	0 0	0		0	0	0	1- 12
Frederick	. 0	U	ATABO		100	0 -		C GUISTE
Washington	. 3	5	2	1	1	1	0	
Virginia:		0	0		. 0	0	0	11.12
Lynchburg Richmond	0	3	0		1	.0	. 0	V450451
Roanoke	0	3			. 0	0	0	13/12
West Virginia: Charleston		0	1	0.00	. 0	. 0	0	1000
Huntington	0 0 3		0		. 0	11	0	000
Wheeling	3	0	1		. 0	11	Dogwood !	PARKE.
North Carolina: Raleigh	. 0	1	0	9.000	0	0	0	1
Wilmington	0	Ó	0		. 0	1	0	02/40.0
Winston-Salem_	1	1	0		. 0		1	1
Bouth Carolina:	. 0	0	0	2	0	0	0	13 1700
Charleston	. 0	0	0		. 0	. 0	0	-
Queenwille	Ö	0	0		- 0	0	. 0	-500
Georgia:	. 0	3	1		. 0		0	
Brunswick	1 0	0			. 0		0	
Ozmanak	. 0	0		3	0	2	0	1 3 3
Florida: Miami				1			0	
Tampa	- 8	9			1		1	100

	1	Diph	theria	Infl	jenza		1	100
Division, State, and city	Chicken pox, cases reported	Cases, estimated expect- ancy	Cases reported	Cases reported	Deaths reported	Mensles, cases re- ported	Mumps, cases re- ported	Pneu- moni a, deaths reported
EAST SOUTH CENTRAL							A const	
Kentucky: Covington Lexington	0	0	0		0	0	0	
Tennessee: Memphis Nashville Alabama:	0	1	0		0	0	0	2
Birmingham Mobile Montgomery	0	2 0 0	1 0 0		0	0	0	î
WEST SOUTH CENTRAL		1						
Arkansas: Fort Smith Little Rock Louisiana:	0	0	0	•	0	0	0	
New Orleans Shreveport Oklahoma:	0	5 0	0	2	2 0	0	. 0	1
Muskogee Texas:	0		0		0	0	0	0
Pallas Fort Worth Galveston Houston San Antonio	0 0 0	3 2 0 2	12 0 0 6		0	0 0 0 0	0	0 2 2
MOUNTAIN				0.910				100 m
Montana: Billings. Great Falls. Helena.	0 0 0	0 0	0	••••••	0 0	1 1 0	. 0	1
MissoulaIdaho: Boise	0	0	0		0	0	0	0
Colorado: Denver Pueblo	2 0	6	1 0		0	1 0	7 0	. 6
New Mexico: Albuquerque Utah:	0	0	0		0	0	0	
Salt Lake City.	1	1	0		1	0	7	0
PACIFIC PACIFIC	0	0	0		0	0	0	
Washington: Seattle Spokane Tacoma	3 3 0	1 1 2	0 0	••••••	0	0 0 1	5 3 0	ó
Portland	1	3	0		0	5 2	0	3
California: Los Angeles Sacramento San Francisco	13 1 7	17 0 5	11 0 2	29	0 0	5 0 4	8 0	1

	Scarle	t fever	6-1	Smallp)X	Tuber-	T	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths all causes
NEW ENGLAND	1	97			1						e line
Maine:							-			7	25
Portland New Hampshire:	0	1	0	0	0	0	0	0	0		1
Concord	0	2	0	0	0	0	0	0	0	0	
Manchester Nashua	0	3 0	0	0	0	0	0	0	0	0	10
Vermont: Barre	0	0	0	0	0	0	. 0	0	0	0	3
Massachusetts:	100	15-63	9	1000	1000	1000	100.00				175911
Boston	15	25	0	0	0	6	1	0	0	56	165
Fall River Springfield	1	1	0	0	0	0	0	0	0	1	21
Worcester	2	4	0	0	0	3	0	1	0	6	31
Rhode Island:	0	0	0	0	0	0	0	0	0	0	17
Providence	3		0				1				
Connecticut:								0		7	17
Bridgeport	1	1 1	0	0	0	0	1	0	0	ó	
New Haven	ô	î	0	0	0	0	1	0	0	9	30 27
MIDDLE ATLANTIC		100	92	0 7	2			0.30	5	- 3	
New York:				35.33	DO TO	11.14				1	
Buffalo	8	11	0	0	0	6	1	0	0	0	100
New York	25	40	0	0	0	85	26	49	0 0	101	1, 119 62
Rochester Syracuse	25 2 1	:	0	0	ő	0 1	1 0	0	0	38	38
New Jersey:		-0		1000	CALL						He LA HELL
Camden	1 3	0 2	0	0	0	1	1 1	0	0	0	31
Newark	1	2	0	0	ő	0	1	- 1	0	22 7	84 32
ennsylvania:		34			DE A						-
Philadelphia	14	23	0	0	0	17	6	16	3 0	27 17	392 132
Pittsburgh Reading	7 0	1 3	0	0	0	1	0	0	0	7	22
Scranton		3		0				0			
EAST NORTH CEN- TRAL						27/0					371617/ 10127/17
Ohio:		7	0 3 7	III A	M 3/4	0		7	F-1	17	100
Cincinnati	9 2 2	16	1 0	. 0	0	16	3 0 2	2 2 0 2	0	40	101 148
Columbus	2	6 2	0	0	0	8	0	0	0	3	79
Toledo	2	2	0	0	0	6	2	2	0	23	66
ndiana: Fort Wayne	1		0			45.	0	8			
Indianapolis South Bend	2 0	0	1	0	0	6	0	1 0	. 0	6 2	
South Bend	0	0	0	0	0	1	0	0	0	0	13 11
Terre Haute	0	0		0							100
Chicago	27	40	0	0	0	30	. 8	4	0	70	502
Springfield	0		0				0				
dichigan: Detroit	20	22	0	0	0	11	4	1	1	121	218
Flint	3	1	0	0	0	1	0	0	1	1	20
Grand Rapids.	2	2	0	0	0	0	0	0	0	33	23
Visconsin: Kenosha	1	0	0	0	0	0	0	0	0	0	
Madison	11	0 2	0	0			Ö	0		11	
Milwaukee	5	2	0	0	0	7	0	1	0	36	81 7 11
Racine	2	0	0	0	0	0	0	0	0	0 2	1 33

	Scarle	t fever	1 3/	Smallpe	X	Tuber-	T3	rphoid i	lever	Whoop-	775
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL		4			48	13					NA Pro-
Minnesota:		431					200	1			1.4
Duluth	3 9	0	0	0	0	1 3	0	0	0	0	17 72 49
St. Paul	6	0	0	0	0	3	1	0	0	24	49
Iowa: Des Moines	2	3	0	0	1		0	0		0	20
Sioux City Waterloo	0	0	0	0			0	0	*******	1	
Missouri:		200	CH 2 19 3	52.78	******		1000	Asset S	*******	0	*******
Kansas City	1	4	0	0	0	2 0	. 0	.0	0	8	77
St. Joseph St. Louis	7	2	0	0	0-	8	6	6	0	0 3	77 27 166
North Dakota:	1	0	0	0	. 0	0	0	0	0	17 2000	WITEGOLD
Grand Forks	i	0	0	0			0	0	0	1 0	4
South Dakota:	0	0	0	0		12.7	0	0		0.00	Market 1
Aberdeen Nebraska:	1 176.54	1	1911		********		6.17.17.0	1 TO	*******	1	*******
Omaha Kansas:	1	4	0	0	0	7	0	0	0	0	46
Topeka Wichita	1 1	0	0	0	0	0	0	0	0	5 0	26
SOUTH ATLANTIC			139		WAY S	30,00		0.00	1	1000	
Delaware:						103	1	11	4.57	100	
Wilmington Maryland:	0	0	0	0	0	1	0	0	0	1	33
Baltimore	4	7	0	0	0	12	6	18	1	25	166
Cumberland Frederick	0	0	0	0	0	0	1 0	1 0	0	5 0	11 5
District of Col.:	4	6	0	0	0	10	2	5	0	3	
Washington Virginia:		1100		11 Co. 14	- VOV. 1	47.4	7	2.3	A	1000	137
Lynchburg Richmond	0 2 1	6 1	0	0	0	1 2	1 2	0	0	28	13 41
Roanoke	1	i	0	Ö	ő	ō	1	ő	0	0 3	13
Roanoke West Virginia: Charleston	0	3	0	0	0	0	2		1	1	17
Huntington		3		0	0	0		2 0	0	0	
Wheeling North Carolina:	0	0	0	0	0	0	0	200	0	1	13
Raleigh Wilmington	0	0	0	0	0 0	1	0	0	0	3	10
Winston-Salem	0	0	0	ő	0	2	2	o l	ô	0	7 12
South Carolina: Charleston	0	0	0	0	0	2	,	3		0	23
Columbia	Ö	0	0	0	0	0	1	0	0	0	3
Greenville				0	0	0		0	0	0	******
Atlanta Brunswick	2	0	1	0	0	4	1	5	1	3	52
Savannah	0 0	0	0	0	0	0 1	0	0	0	0	22
Florida: Miami	0	0	0	0	1 23	3					D. 18 (1975)
Tampa	ő	1	0	0	0	ő	0	0	0	0	23 24
EAST SOUTH CEN- TRAL		14		513						37.8	
Kentucky:	12.50			25	1.13	1	323	365	2 6		1
Covington	0 -		0 -				0 -				******
Lexington		0	******	0	0	0	******	2	0	5	17
Memphis Nashville	1	2	0	0	0	9	10	6	1,	9 7	73 46
Alabama:	164		200	100	2500	307	10.5	100	1	0.000	
Birmingham Mobile	0	0	0	0	0	3	5 1	0	0	4	46 19
Montgomery.	ő	0	0	o L			il	il		0	10

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	Scarle	t fever		Smallp)K	Tuber-	T	phoid i	lever	Whoop	423
Division, State, and city	Cases, esti- mated expect- ancy	Cases re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis,	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deatha all causes
WEST SOUTH											
Arkansas:	1131	432	37.0	24	12.00	13.40	1357		11 - 20		4.775
Fort Smith	0	0	0	0			0	0 2		2 0	
Little Rock	0	0	0	0	0	0	1	2	0	0	100
Louisiana:			1			10					
New Orleans Shreveport	3	0	0	1 0	0	1	5 2	3	3 0	1	141
Oklahoma:											
Muskogee	1	0	. 0	0	0	0		2	0	0	355V.
Texas:		100	10	100	1	1275.14	1000	2100	-	2000	2000
Dallas	3 1 0	2	0	0	0	4	1 2 1 2 1	4	0	2	64 31 11
Fort Worth	1	4 0	0	0	0	2 0	2	0	0	0	31
Galveston		0	0	0	0	6	1	1 0	0	0	11
Houston	1	0	0	0	0	2	2	2	0	0	74
San Antonio							0.5	-	. 0		40
MOUNTAIN		1	0.19	100	1800	400		2.57			447
Montana:	1.00	OC.	15 (1)	-3.3			15 15 1	ONL	0230	200	W-100
Dillings	0	0	0	0	0	0	0	0	0	0	3
Great Falls	0	1 0	0	0	0	0	0	0	0	0	5
Helena		0	0	0	0	0 0 0	0	0	0	0	3
Missoula	0	0	0	0	0	1	0	0	0	0	8
Idaho:		0	1			0		0			
BoiseColorado:	0	0		0	0	0	0	0	0	0	
Denver	2	4	0	0	0	5	1	0	0	20	68
Pueblo	1	ō	Ö	Ö	Ö	ő	ô	0	0	8	8
New Mexico:			1	V3 /				1000			
Albuquerque	0	0	0	0	0	5	0	. 0	0	2	- 11
Utah:				10.3	1000	3-80	15.0	425	0.00	279	
Salt Lake City.	1	1	0	0	0	0	2	0	0	7	25
Nevada: Reno	0	0	0	0	0	0	0	0	0	0	A TOTAL
ACHO	-			4 (2)							. 0
PACIFIC		100		6	340	1.7	300	20	200	4.19	
Washington:		5,533	14 . A	114	(FEE)	1.4	(3.39)	5440	and the	J. 945.	
Seattle	3	2	0	0	23.64	1565	1	0	E 30 10	0	
Spokane	3	2 0	0	2 2			0	0		0	
Tacoma	2	1	2	2	0	0	0	4	1	0	30
Oregon:		No.	10.7.4	100	-18.0	20450		13	37.11	16023	
Portland	2	1	3 0	0	0	1	1	0	0	10	49
SalemCalifornia;	0	0	0	0			0	0	******	7	******
Los Angeles	10	12	9		0	19		2	0	70	974
Sacramento		11	2	0	0	2 7	1 2	3	0	79	278
San Francisco.	5	1 2	o	- 0	0	1	0 1	0	0	10	23 150

	Menin men	gococcus ingitis	Letha	rgic en-	Pel	llagra		yelitis (paralysi	infantile s)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases esti- mated expect- ancy	Cases	Deaths
NEW ENGLAND	1	1	11-16		To so	12.1		100	
Maine: Portland Massachusetts: Worcester	0	0	0	0	0	0	0	2 0	
MIDDLE ATLANTIC	6.14	· ea		174		19.00	1	Second	Control of
New York:			10						NUESC.
New York 1 New Jersey:		-10	3	1	0	0	16	11	100
New Jersey: Newark Trenton	2 0	0	0	0	0	0	0	1	0
Pennsylvania: Philadelphia	3	1	0	0	0	0	1	45	120
EAST NORTH CENTRAL	·					-			-1993
Oblo:				9					
Cleveland	2 0	0	0	0	0	0	1 0	1	0
Indiana: Indianapolis	3	0	0	0	0	0	0	0	
	00 T T VE 1		7.50	1-010-7	10000	13000	2	2	ALCU 1
Chicago	2	1	0	0	0	0	1	0.926	PETAV
Detroit	1	0	1	0	0	0	2	0	. 0
Milwaukee	0	0	1	1	0	0	0	1	0
WEST NORTH CENTRAL	- 16	40	C	1	1	Bir a		40.00	1075
Minnesota; Minneapolis	1	0	0	0	0	0	0	0	
Minneapolis	0	0	0	0	0	0	0	1	0
Des Moines	0	0	0	0	. 0	0	0	1	0
SOUTH ATLANTIC			0.3	3	1 30				
Maryland: Baltimore 1	0	0	1	1	0	0	1	1	0
Baltimore 1. District of Columbia:	0	0	1	1	0	0	1	2	0
Washington West Virginia:	(A)	-	160	white all	ME A	1000	1		B. 9.1
Charleston Huntington	0	0	0	0	0	1	0	0	0
North Carolina: Raleigh	0	0	0	0	2	0	0	0	0
	3 13	10.00	1		700				ASSESSED FOR
Charleston	0	0	0	0	4	0	0	1	0
Atlanta 1 Brunswick	2 0	0	1	0	3 2	0	0	0	0
Savannah 1	0	0	0	Ö	2	1	0	0	ő
Florida: Miami	0	0	0	0	1	0	0	0	0
EAST SOUTH CENTRAL									
Tennessee:									1
MemphisNashville	0	0	0	0	0	0	0	0	0
WEST SOUTH CENTRAL		64					100	1	
Louisiana:	4.6	5			1	4 Y	1		
New Orleans 1	0	0	0	0	1	1 1	0	3	0
Shreveport	0	0	0	0	0		0	0	0
San Antonio	0	0	0	0	0	. 0	0	1	0
PACIFIC	0.0	1	3			-	25	293	
Washington: Seattle	0	0	0	0	0	0	1	1	0
California: Los Angeles	0	1	1	0	1	0	1	3	1
and Augured					-				CHER !

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¹ Typhus fever, 9 cases: 2 cases at New York City, N. Y.; 1 case at Baltimore, Md.; 2 cases at Atlanta, Ga.; 8 cases at Savannah, Ga.; and 1 case at New Orleans, La.

FOREIGN AND INSULAR

CANADA

Provinces—Communicable diseases—Week ended August 6, 1932.— The Department of Pensions and National Health of Canada reports cases of certain communicable diseases for the week ended August 6, 1932, as shown in the following table. Provinces not given in the table did not report, during the week, any case of any disease included in the table.

Province	Cerebro- spinal fever	Influenza	Lethargic encepha- litis	Polio- myeli- tis	Small- per	Typhoid fever
Nova Scotia	2	8		1 18	3	1 19
Saskatchewan Alberta British Columbia		3	1	*********		LIPOT LA
Total	2	12	1 1	19	3	1 35

¹ Including 5 cases of paratyphoid fever.

Quebec Province—Communicable diseases—Week ended August 6, 1932.—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the week ended August 6, 1932, as follows:

Disease	Cases	1. 14. J. W.	Disease	b 11 2 500	Cases
Chicken pox	5 11 1 1 15 15	Puerperal s Scarlet feve Tuberculos Typhoid fo Whooping	isver	000000000000000000000000000000000000000	1 29 31 7 30

CZECHOSLOVAKIA

Communicable diseases—June, 1932.—During the month of June, 1932, certain communicable diseases were reported in Czechoslovakia as follows:

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Disease	Cases	Deaths	Disease	Cases	Deaths
Anthrax Cerebrospinal meningitis Diphtheria Dysentery Malaria Paratyphoid fever	1 11 1,541 10 124 15	3 70 2	Puerperal fever	38 1, 873 163 290 1	21 25 27

ITALY

Communicable diseases—Four weeks ended January 10, 1932.— During the four weeks ended January 10, 1932, cases of certain communicable diseases were reported in Italy as follows:

Disease	Dec. 14-20		Dec. 21-27		Dec. 28-Jan. 3		Jan. 4-10	
	Cases	Com- munes affected	Cases	Com- munes affected	Cases	Com- munes affected	Cases	Com- munes affected
Anthrax Cerebrospinal meningitis	13 12 222 456 9	11 11 91 238 7	25 8 368 681 4	24 7 106 334 3	21 9 197 464 2	17 9 73 249 2	42 8 376 612 8	37 8 132 315 7
Measles Poliomyelitis Rabies	1, 169 13	159 10	1, 588	216 6	1, 089	165	1, 679	316
Scarlet fever	326	129	423	163	315	116	430	161
Typhoid fever	295	169	452	225	261	146	357	201

LATVIA

Communicable diseases—June, 1932.—During the month of June, 1932, cases of certain communicable diseases were reported in the Republic of Latvia, as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis	7 43 22 65 1 16 66 21	Poliomyelitis Puerperal fever Scarlet fever Trachoms Typhoid fever Typhus fever Whooping cough	3 14 32 96 48 5 191

VIRGIN ISLANDS

Notifiable diseases—July, 1932.—During the month of July, 1932, cases of certain notifiable diseases were reported in the Virgin Islands, as follows:

Disease	Cases	Disease	Cases
Chancroid	1 4 1 26 2	Syphilis. Tetanus. Tuberculosis. Uncinaciasis.	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

(Note.—Current information regarding the world-wide prevalence of the quarantinable diseases and data covering the preceding six months have heretofore been published in tabular form at this place in the Public Health Reports. Owing to the necessity for drastic economies resulting from a reduction in printing funds, the full table will be published, at least for the time being, only in the last issue of each month. In the intervening weekly issues there will be printed in this space brief notes regarding new foci of quarantinable diseases and other important data considered of especial interest to quarantine officers.)

Cholera

Baluchistan.—During the week ended August 6, 1932, 18 cases of cholera with 6 deaths were reported in Baluchistan.

China.—Cholera has been reported in Chinese cities as follows: Week ended July 30, 1932—Kwantung, District of Port Arthur, 2 cases, 2 deaths; Hankow, 6 cases and 3 deaths. Week ended August 6, 1932: Amoy, 110 cases, 48 deaths; Macao, 18 cases, 18 deaths; Nanking, 112 cases, 24 deaths; Shanghai, 454 cases, 39 deaths. Week ended August 13, 1932: Canton, 8 cases, 4 deaths; Hong Kong, 11 cases, 9 deaths. On August 23, 1932, 22 cases of cholera with 8 deaths were reported at Tsingtao, China.

Philippine Islands.—One fatal case of cholera was reported August 15, 1932, at Malolos, Bulacan Province, Philippine Islands.

Plague

Hawaii Territory.—Three plague-infected rats have been reported at Makawao, Island of Maui, Hawaii Territory. One rat was captured August 9, 1932, and two rats August 11.

Senegal.—Twelve fatal cases of plague were reported at Thies, Senegal, during July, 1932.

Yellow Fever

Bolivia.—The disease previously reported in southern Bolivia has been proved to be yellow fever. The principal focus is the city of Santa Cruz and surrounding territory. About 30 deaths have occurred. Under date of July 26 it was said that two or three sporadic cases a month were occurring.

¹ Public Health Reports, Aug. 26, 1932, p. 1811.